THOMSON MULTIMEDIA

Brandt FERGUSON **NORDMENDE** SABA **TELEFUNKEN** **THOMSON**

VIDEO

SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

VIDEORECORDER
R5000-T5000 HI-FI
2. VERSION

THOMSON **TELEFUNKEN** **NORDMENDE** **SABA**

⚠

WARNING : *Before servicing this set read the safety recommendations.*
ATTENTION : *Avant toute intervention sur cet appareil, lire les recommandations de sécurité.*
ACHTUNG : *Bei jedem Eingriff im Gerät, die Sicherheitsvorschriften beachten.*
ATTENZIONE : *Prima di intervenire sull'apparecchio, leggere le norme di sicurezza.*
IMPORTANTE : *Antes de cualquier intervención, leer las recomendaciones de seguridad.*

Code : 350 435 10 - 0997 - 10,4M - R5000-T5000 HI-FI - Print ROSSEELS PRINTING : 01 53 01 11 11

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⚠ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be garanteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) durch nicht normengerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (marcati con il segno ⚠) con componenenti non omologati secondo la norma CEI 65 comporta la non conformitá dell'apparecchio. In tal caso è "esclusa la responsabilità " del costruttore.

La subtitución de elementos de seguridad (marcados con el simbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

⚠ Do not disconnect modules when they are energized!
Repairs on power supply section are to be carried out only with isolating transformer.

⚠ Ne pas retirer les modules lorsqu' ils sont sous tension.
N'effectuer les travaux de maintenance sur la partie reliée au secteur (Switch Mode) qu'au travers d'un transformateur d'isolement.

⚠ Module nicht bei eingeschaltetem Gerät entfernen !
Servicearbeiten am Netzteil nur unter Verwendung eines Regeltrenntrafos durchführen.

⚠ Non scollegare i moduli quando sono alimentati!
Intraprendere riparazioni sulla sezione alimentatore solo con trasformatore isolante.

⚠ No desconectar los módulos cuando están activados.
Las reparaciones en la sección de alimentación de energía deben ser ejecutadas solamente con un transformador de separación.

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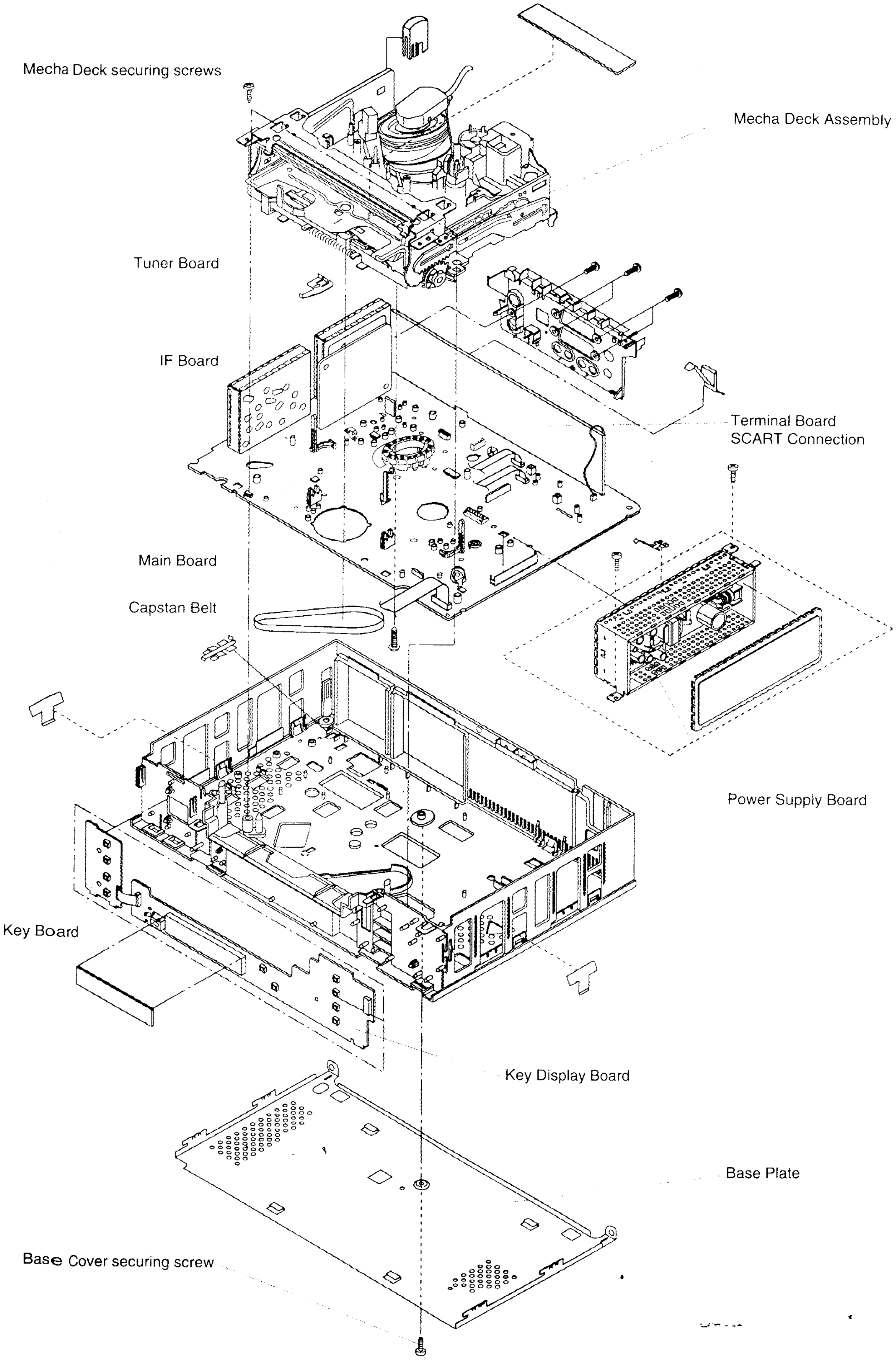
VIDEO RECORDER OVERVIEW - LOCALISATION DES ELEMENTS - EXPLOSIONSZEICHNUNG DES GERÄTES - VISIONE DECOMPOSTA DELL'APPARECCHIO - VISTA AMPLIADA DEL CONJUNTO


Mecha Deck securing screws
Mecha Deck Assembly
Tuner Board
IF Board
Terminal Board
SCART Connection
Main Board
Capstan Belt
Power Supply Board
Key Board
Key Display Board
Base Plate
Base Cover securing screw

1. Service Hinweise

1.1 Demontage des Gerätes

1.1.1 Gehäuse

a) 5 Schrauben an der Rückseite des Gehäuses herausdrehen.
b) Die zwei seitlichen Schrauben herausdrehen
c) Das Gehäuseoberteil leicht nach hinten ziehen und anheben.

1.1.2 Frontblende

a) 2 Schrauben an der Oberseite links und rechts vom Kassettenfach herausdrehen.
b) 2 Kunststoffzungen an der Oberseite anheben.
c) 2 Kunststoffzungen an der Unterkante der Frontblende anheben und die Frontblende abnehmen.
Anmerkung: Während des Wiedereinbaus der Frontblende, muß die Kassettenklappe hinter dem Hebel liegen, auf der rechten Seite des Kassettenschachtes (halten Sie die Kassettenklappe in horizontaler Lage beim Einfügen in die Frontblende).

1.1.3 Bedienteil - Platte (KDB)

a) Ziehen sie die Stecker BK14 und BK06 heraus.
b) 2 Rastnasen an der Oberkante der Bedienteil-Platte anheben und Platte nach vorne/oben herausheben.

1.1.4 Front-Anschlußplatte(nicht bei allen Geräten)

a) Lösen Sie 2 Verriegelungen am oberen Teil der Platte, ziehen Sie die Platte nach vorn/oben, um sie abzunehmen.

1.1.5 Bodenplatte

a) Eine Schraube aus der Bodenplatte entfernen.
b) Lösen Sie Verriegelung in der Mitte der Abschirmung (in der viereckigen Öffnung), drücken Sie die Abschirmung nach hinten, um sie frei zu machen.

1.1.6 Versorgungsteil

a) Entfernen Sie 2 Schrauben .
b) Ziehen Sie die komplette Stomversorgung heraus.

1.1.7 Hauptleiterplatte kpl. mit Laufwerk (Mecha Deck)

a) Die Schraube in der Mitte der Bodenplatte von unten entfernen.
b) Frontblende entfernen und die Steckverbindungen auf der Bedienteil-Platte lösen.
c) 2 Schrauben links und rechts (von oben) des Laufwerks herausdrehen.
d) Lösen Sie 4 Verriegelungen, dabei den hinteren Teil festhalten (Anschluß-Stecker Halterung).
e) Lösen Sie 2 Verriegelungen, die Hauptleiterplatte halten.
f) Machen Sie die Verriegelung hinter dem Gerät los.
g) Ziehen Sie die Gesamt-Einheit (Hauptleiterplatte und Laufwerk) heraus .

1.1.8 Kassettenschacht

Vorher Pkt. 1.1.7 durchführen.
a) 2 Schrauben links und rechts am Kassettenschacht lösen.
b) Den oberen Teil des Kassettenschachtes abheben.
c) Den Kassettenhalter bis zum vorderen Anschlag zurückziehen.
d) Heben Sie den Kassettenschacht auf der Seite der Trommel leicht an.
e) Machen Sie die weißen Hebel frei (links und rechts des Kassettenschachtes) und drücken Sie den Kassettenschacht zur Trommel bis die Führungsblöcke (an der hinteren Seite) aus den Führungsschienen kommen.
f) Ziehen Sie jetzt Sie den Kassettenschacht in der entgegengesetzten Richtung bis die Führungsblöcke (an der Vorderseite) ebenfalls aus den Führungsschienen kommen.

1.1.9 Hauptleiterplatte vom Laufwerk trennen

Vorher Pkt. 1.1.7 durchführen.
a) Steckverbindungen BT002 (am Lademotor), BV001 (Kopftrommel) und BN003 (HIFI) abziehen.
b) Eine, mit einem Pfeil markierte Schraube, von der Lötseite der Hauptplatine herausdrehen.
c) Antriebsriemen entfernen.
d) Leiterplatte entrasten (4 Clips) und abnehmen

1. Service Notes

1.1 Disassembly

1.1.1 Top cover

a) Remove 5 screws from the rear.
b) Pull the top cover slightly backwards and lift.

1.1.2 Front panel

a) Remove two screws on the front left and right side of the cassette housing.
b) Bend the 4 top hooks of the front panel upwards to disengage them from their chassis retainers.
c) Disengage two lower hooks of the front panel and pull the front panel forward and downward to remove.
d) Note: During reinstallation of the front panel, the cassette flap must be positioned behind the lever, on the right-hand side of the cassette holder (hold the flap in a horizontal position while engaging the front panel).

1.1.3 Key Display Board

a) Disconnect connectors BK14 and BK06.
b) Disengage 3 hooks on the upper edge of the KDB and remove the board in a forward and upward direction.

1.1.4 Front connection board (not in all cases)

a) Release the two clips at the upper edge of the board and remove the board in a forward and upward direction.

1.1.5 Bottom cover

a) Take out one screw from the base.
b) Release the clip in the center of the bottom cover (in the square hole), push the cover to the back and lift it.

1.1.6 Power Supply assy.

a) Remove 2 screws.
b) Remove the Power Supply Assy.

1.1.7 Main board assy. with Mecha Deck

a) Remove the centre screw from the base.
b) Remove the front panel and disconnect the cableconnections on the key display board.
c) Remove 2 screws on the left and right of the Mechadeck.
d) Release the 4 clips holding the rear section (socket support).
e) Release the 2 clips holding the main deck.
f) Release the clip at the rear left of the device.
g) Remove the Mecha Deck with the main board upwards.

1.1.8 Cassette housing

Before doing this step please do step 1.1.7.
a) Take out two screws at the left and the right side of the upper part of the cassette holder.
b) Remove the upper part of the cassette holder
c) Pull the remaining part to the upper end position.(Eject)
d) Lift the cassette holder at the side, which shows to the drum. Release the white levers (left and right of the cassette holder) and push the cassette holder towards the drum until the guide pins at the rear side come out of the guide rails.
f) Now pull the cassette holder in the opposite direction until the guide pins at the front side also come out of the guide rails.

1.1.9 Separate Main board from Mecha Deck

Before doing this step please do step 1.1.7.
a) Disconnect the cable connection BT002 (function control motor), BV001 (drum motor) and BN003 (HIFI).
b) Take off one screw marked with an arrow from the solder side of the main board.
c) Remove the capstan belt.
d) Release the 4 clips and remove the main board.

1.2 Exchange of the drum unit

Note:
To exchange the upper part of the drum unit, refer to the service manual :

«Drum Disassembly / Assembly»

1.2 Austausch der Kopftrommeleinheit

Anmerkung.

Um den oberen Teil der Trommel auszuwechseln, beziehen Sie sich bitte auf das Handbuch:

«Mechanische Einstellungen R4000»

1.3 Service Einstellungen

1.3.1 Einrichten der Bedienteil-Software

Es ist notwendig den KDB-Prozessor über die bestehende Hardware-Konfiguration zu informieren. Dies wird bereits ab Werk konfiguriert und in den EEPROM abgelegt.

1. Videorecorder vom Netz trennen.
2. Tasten "-" und "+" an der Frontseite gedrückt halten und dabei den Recorder am Netz anschließen.

Für Gerät mit 18 Ziffern:
Auf dem TV-Schirm werden 18 Ziffern angezeigt, die den aktuellen Zustand des Gerätes anzeigen.
Im Display erscheint "SETUP".
In diesem SERVICE EINSTELLUNGS-Modus können gewisse Werte in Funktion spezifischer Charakteristika eingegeben werden. Die 18 Ziffern, die Ihrem Gerät entsprechen finden Sie auf Seite 9. Die jeweils einzustellende Ziffer blinkt auf dem Bildschirm. Die Eingaben werden mit den Zifferntasten auf der Fernbedienung durchgeführt. Nachdem alle 18 Ziffern eingegeben wurden, blinkt die erste Ziffer wieder.
Um die neuen Einstellungen abzuspeichern, drücken Sie bitte die STOP Taste. Sie können den Service Mode auch verlassen, ohne abzuspeichern. Dazu drücken Sie bitte die EXIT Taste auf der Fernbedienung.
Wenn Sie die neuen Werte abgespeichert haben, dauert es einige Sekunden, bis diese in das EEPROM geschrieben sind. Während dieser Zeit bleibt das Display dunkel.

Für Gerät mit 14 Ziffern:
Auf dem TV-Schirm werden 14 Ziffern angezeigt, welche die aktuellen Voreinstellungen angeben.
Die Tasten1, 3, 4, 5, 6, 7, 8, 9, 0 drücken, um den Service-Datenwert von 0 zu F zu erhöhen, und 2 drücken, um zur nächsten Nummer überzugehen.
In diesem Service-Einrichtungsmodus können einige dem Videorecordertyp entsprechende Einstellungen vorgenommen werden. Die Ihrem Gerät entsprechende Nummer aus 14 Ziffern finden Sie in der Tabelle auf Seite 3. Die jeweils einzustellende Ziffer blinkt auf dem Bildschirm. Die Eingabe erfolgt mit den Tasten der Fenbedienung. Nachdem alle 14 Ziffern eigegeben wurden, blinkt wieder die erste Ziffer. Zum Abspeichern der neuen Einstellungen drücken Sie die Taste „STOP“ der Fernbedienung. Sie können den Service-Modus auch ohne Abspeichern verlassen. Zu diesem Zweck drücken Sie die Taste „E“ oder „OFF“ der Fernbedienung.
Wenn Sie die neuen Werte abgespeichert haben, dauert es einige Sekunden, bis diese in das EEPROM geschrieben sind. Während dieser Zeit bleibt die Anzeige dunkel.

Die Taste "Schneller Vorlauf (>>)" dient zur Auswahl der zweiten Seite des Service Modes. Diese Seite enthält die Funktion «Auto Diagnose». Sie finden mehr Details im Paragraph 1.4.

Hinweis:
Nach der Änderung der Einstellungen im Service Mode ist es erforderlich, den Kopftrommel - Umschaltpunkt neu zu setzen.

1.3.2 Kopf-Trommel-Umschaltpunkt

Legen Sie eine schreibgeschützte Meßkasette in das Videogerät. Die Wiedergabe startet automatisch. Wenn «START. E ---» angezeigt wird, drücken Sie die «STATUS»Taste auf der Fernbedienung. Drücken Sie gleichzeitig die Tasten «+»,«-» danach «PLAY ▶ » auf der Frontseite (Halten Sie die drei Tasten fest). Es wird "EINST." angezeigt. Das Videogerät bleibt im Wiedergabebetrieb. Beenden Sie nach eingen Sekunden diese Einstellung durch Drücken von «PLAY ▶ » auf der Frontseite. (Sehen Sie unter § 2.2.4 betr. der elektrischen Einstellungen nach)

1.3 Service Adjustments

1.3.1 KDB Software Set-Up for R5000

It is necessary to inform the KDB processor which hardware configuration is present. This is done in the factory and the selections stored in the EEPROM.
1. Disconnect the VTR from the mains.
2. Hold keys « - » and « +» pressed and connect the VTR to the mains. (For VCR without these keys, use « STOP », « PLAY » and « STANDBY » keys instead). And release « - » and « + » keys.

For models with 18 digits:
On the TV screen 18 digits are shown, representing the actual Setup values.
The display shows «SETUP».
In this SERVICE SET UP mode, some VTR-TYPE specific settings can be done. The number of 18 digits corresponding to your set is given at the page 9. The actual digit for the input is flashing on the screen. The inputs are done by the numeric keys on the remote control. After the input of all 18 digits, the first digit is flashing again. Store the new settings by pressing the STOP key on the remote control. You can also leave the SERVICE SET UP mode without storing the new settings. To do so, please press the EXIT key on the remote control.
If you have decided to store the new settings, it takes some seconds to initialise the EEPROM. During this time the display remains dark.

For models with 14 digits:
On the On Screen Display (OSD) 14 digits are shown, representing the actual Setup values.
Press 1,3,4,5,6,7,8,9,0 to increase service data value from 0 to F and press 2 to go to next number.
In this SERVICE SET UP mode, some VTR-TYPE specific settings can be done. The number of 14 digits corresponding to your set is given in the page 3 table. The actual digit for the input is flashing on the screen. The inputs are done by the keys on the remote control. After the input of all 14 digits, the first digit is flashing again. Store the new settings by pressing the STOP key on the remote control. You can also leave the SERVICE SET UP mode without storing the new settings. To do so, please press the « E » or « OFF » key on the remote control.
If you have decided to store the new settings, it takes some seconds to initialise the EEPROM. During this time the display remains dark.

The key «FAST FORWARD» is used to switch over to the second page of the Service Mode. This page introduces the Auto Diagnostic function. You will find more details of this in Paragraph 1.4.

Important note:
After the modification of the settings in the Service mode, a new adjustment of the HEAD SWITCHING POINT is necessary.

1.3.2 Head switching point

Insert a protected adjustment test cassette into the video recorder. Playback is set automatically. When the display shows PLAY E— press the key "STATUS" on the remote control. After that, press «+», «-» keys and «PLAY»key on the front panel Hold all three keys pressed).The display indicates ADJ. The VCR will stay in PLAY mode. After a few seconds, stop the adjustment by pressing «PLAY» key on the front panel.
(see point. 2.2.4 of the electrical adjustments)

1.3.3 Sprachumschaltung

Taste "STATUS" der Fernbedienung gedrückt halten, bis die gewünschte Sprache im Display und auf dem Bildschirm erscheint.

1.4 Auto-Diagnose

Wenn ein mechanischer Fehler auftritt oder nach einem Bedienungsfehler, wird eine Zahl von 10 Ziffern, welche die Fehlfunktion darstellt, im EEPROM gespeichert.
Die angezeigte Zahl auf dem Schirm kann durch Vergleich mit der Tabelle auf S.6 hilfreich sein, das aufgetretene Problem zu lösen.

1.4.1 Anzeige einer Fehlermeldung

Die Fehlermeldung kann auf 2 Arten erfolgen:

a) Wenn die Seite «SERVICE EINSTELLUNGEN» auf dem Schirm ist, drücken Sie «<< Schneller Vorlauf «>>» auf der Fernbedienung.

b) Im **STOP oder STANDBY Modus**, wenn keine Anzeige auf dem Schirm ist, drücken Sie mindestens 10 Sekunden auf LÖSCHEN.

1.4.2 Interpretation der Fehlermeldung

Die Bedeutung der verschiedenen Ziffern, welche die Fehlermeldung darstellen, wird in nachstehender Tabelle angegeben.

1.3.3 Language selection

Keep the STATUS key pressed down, to choose the language of the menus on the display and on the TV screen.

1.4 Auto Diagnostic

When a mechanical problem or operating error occurs, a 10-digit number representing the malfunction is stored in the EEPROM memory.
This number is displayed on the screen and, when analysed, assists in finding a solution to the problem.

1.4.1 Error Message Display

The error message can be displayed in two ways:

a) When the «SERVICE SETUP» page is displayed on the screen, press the FAST FORWARD key «>>» of the remote control.

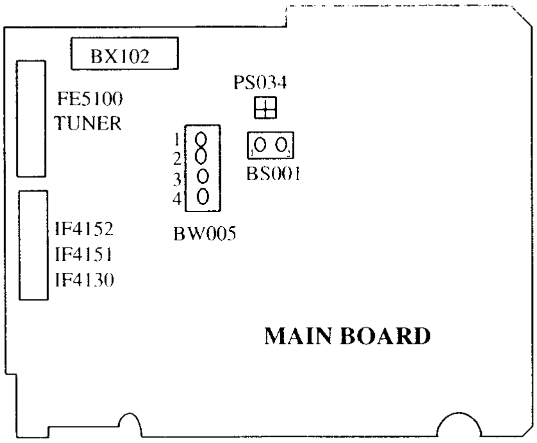
b) In **STOP or STANDBY modes**, when there is no display on the television screen, press the ERASE key, holding for at least 10 seconds.

1.4.2 Interpretation of Error Message

The meaning of the various error message digits is given in the table below.

Number of digit	Meaning	Value
1 and 2	Target mechadeck and current mechadeck positions	1 - Wind 2 - Stop 3 - Standby 3 - Play 4 - Rev 5 - Loading / Unloading 6 - Off 7 - Eject F - Initial
3 and 4	Task servo is performing	00 - Stop 01 - FRew 02 - FF 04 - Play 11 - Rev 12 - Cue 44 - Record 84 - Still C4 - Rec Pause 40 - Rec / Rec P 10 - Search mode
5,6 and 7,8	Task active prior to abnormal off	bit 0
	Normal	0 0 0 0
	Record	0 0 0 1
	Step	0 0 0 4
	Off	0 0 0 8
	Eject	0 0 1 0
	Stop	0 0 2 0
	Capbrake	0 0 4 0
	Initial	0 0 8 0
	Endless Record	0 2 0 0
	Endless Play	0 4 0 0
	Continuous	0 8 0 0
	Wind	1 0 0 0
	Search	2 0 0 0
	Still	4 0 0 0
	Play	8 0 0 0
9 and 10	Abnormal flags	81 - Drum 82 - Left Reel 84 - Right Reel 88 - Task incomplete

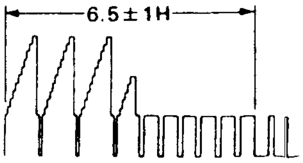
2. ELECTRICAL ADJUSTMENTS - ELEKTRISCHE EINSTELLUNGEN



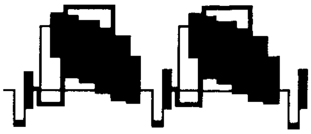
2.2. Measurements Servo Part - Main board
Messungen Servoteil - Hauptleiterplatte

Note: low level < 0.8V; high level > 4.0V

Anmerkung: L-Pegel < 0,8 Volt; H-Pegel > 4,0 Volt

N°	Item Einstellung	Mode & signal Betriebsart	Test equipment Input signal Meßmittel Eingangssignal	Test point Meßpunkt	Adjustment Point Einstell-Punkt	Description Beschreibung
2.2.1	Oscillator frequency	E.E.	Frequency counter	IT001 (pin 63)	PT001	Adjust for 4 MHz ± 40 Hz
	Oszillator Frequenz	E.E.	Frequenz-zähler	IT001 (pin 63)	PT001	4 MHz ± 40 Hz einstellen
2.2.2	Drum FF (A / V SWP)	REC/PB	Oscilloscope	BW005 / 3	None	Confirm 25 Hz signal
	Kopftrommel-Flip-Flop	REC/PB	Oszilloskop	BW005 / 3	Kein Abgleich	25 Hz Signal überprüfen
2.2.3	Capstan FG frequency	PB / REC (SP)	Frequency counter	IT001 (pin 44)	None	Confirm 757 Hz ± 10 Hz
	Capstan FG Frequenz	PB / REC (SP)	Frequenz-zähler	IT001 (pin 44)	Kein Abgleich	757 Hz ± 10 Hz überprüfen
2.2.4	Head switching point	PB	Dual trace Oscilloscope Trigger ext. BW005/3 (Drum FF)	SCART AV1 (pin 19)	Adjustment by software setup	1. Insert alignment test cassette. 2. When the display shows «PLAY E----» press the STATUS key on remote control. 3. Press «+» , «-» and «PLAY». 4. Display shows «ADJ». 5. Confirm that head switching point is 6.5 H ± 1H before vert. synchro. 6. Stop the adjustment by pressing Play key on the front panel. 
	Kopf-Trommel-Umschaltpunkt	PB	Zweistrahl-Oszilloskop; Externer Triggerpkt. BW005/3 (Drum FF)	SCART AV1 (pin 19)	Software-Einstellung	1. Geschützte Meßkassette einlegen 2. Taste "STATUS" auf Fernbedienung drücken, sobald Display "PLAY E---" anzeigt. 3. Tasten "+" und "-" gedrückt halten und zusätzlich Taste "PLAY ► " drücken. 4. Display zeigt "ADJ". 5. Prüfen, ob Kopfumschaltpunkt 6,5 H ±1 H vor dem Vertikal-Synchronimpuls liegt. 6. Beenden Sie die Einstellung durch Drücken der Taste "PLAY ► " des Videorecorders.

2.3. Video signal processing (Main board)
Video signalteil (Hauptleiterplatte)

N°	Item	Mode & signal	Test equipment Input signal	Test point	Adjustment Point	Description
	Einstellung	Betriebsart	Meßmittel Eingangssignal	Meßpunkt	Einstell-Punkt	Beschreibung
2.3.1	EE Level	EE Colour bar 1Vpp (AV1 pin20)	Oscilloscope	AV1 pin 19 (without load)	None	Check for 2.0Vpp±0.1Vpp
	E-E - Pegel	E-E Farbbalken, (AV1 pin20)	Oszilloskop	Anschluß 19 von AV1 ohne Scartstecker	Kein Abgleich	 2.0 Vss ±0,1 Vss messen
2.3..2	FM REC level	REC without signal	Oscilloscope	TV200 (emitter)	None	Check for 800mVpp
	FM-Aufnahme-Pegel	REC ohne Signal	Oszilloskop	TV200 (Emitter)	Kein Abgleich	800 mVss überprüfen
2.3.3	PAL chroma REC level	REC PAL colour bar 1Vpp AV1 pin20	Oscilloscope	IV001 (pin 38)	None	Check for 200mVpp±10% burst amplitude
	PAL Farbaufnahme-Pegel	REC PAL Farbbalken 1Vpp AV1 pin20	Oszilloskop	IV001 (pin 38)	Kein Abgleich	200 mVss ±10 % Burstamplitude überprüfen
2.3.4 (Not for all sets)	SECAM Anti Bell filter (1.0715 MHz)	REC SECAM colour bar 1Vpp AV1 pin20	Oscilloscope	IC100 (pin 28)	PC103	Adjust such that the magenta bar in R-Y and B-Y have the same amplitude
Nur für Multistandardgeräte	Anti Bell Filter SECAM (1.0715 MHz)	REC SECAM Farbbalken 1Vpp AV1 pin20	Oszilloskop	IC100 (pin 28)	PC103	So einstellen, dass die Magentabalken in R-Y und B-Y dieselbe Amplitude haben
2.3.5 (Not for all sets)	SECAM Bell filter (4.286 MHz)	REC SECAM coul. 1Vpp (AV1 pin20)	Oscilloscope	IC100 (pin 26)	PC104	Adjust such that the magenta bar in R-Y and B-Y have the same amplitude
Nur für Multistandardgeräte	Bell Filter SECAM (4.286 MHz)	Farbbalken 1V ss an AV1 pin 20	Oszilloskop coul. 1Vpp	IC100 (br 26)	PC104	So einstellen, daß die Magentabalken in R-Y und B-Y dieselbe Amplitude haben
2.3.6 (Not for all sets)	SECAM chroma REC level	REC SECAM colour bar 1Vpp AV1 pin20	Oscilloscope	IC100 (pin 28)	None	Check for 100mVpp±10% magenta bar amplitude
Nur für Multistandardgeräte	SECAM Farbaufnahme-Pegel	REC SECAM Farbbalken 1Vss AV1 pin20	Oszilloskop	IC100 (pin 28)	Kein Abgleich	Magenta Farbbalken auf eine Amplitude von 100 mVss ±10 % überprüfen

2.4. On screen display (Main board)
OSD - Hauptleiterplatte

N°	Item Einstellung	Mode & signal Betriebs-art	Test equipment Input signal Meßmittel Eingangssignal	Test point Meßpunkt	Adjustment Point Einstell-Punkt	Description Beschreibung
2.4.1	OSD chroma oscillator		Frequency counter	Via 4k7 to IT001 (pin78)	None	Confirm 17.734475MHz±500Hz
	OSD Chroma-Oscillator		Frequenzzähler	pin78 IT001 über 4k7	Kein Abgleich	Überprüfen der 17,734475 MHz ± 500 Hz .

2.5. Audio signal processing (Main board) - Audio Signalverarbeitung-Hauptleiterplatte

N°	Item Einstellung	Mode & signal Betriebs-art	Test equipment Input signal Meßmittel Eingangssignal	Test point Meßpunkt	Adjustment Point Einstell-Punkt	Description Beschreibung
2.5.1	Bias oscillator frequency	REC (without signal)	frequency counter (high impedance probe)	BS031 / 1	None	Check for 70 kHz ±7 kHz
	Löschoszillator Frequenz	REC (ohne Signal)	Frequenzzähler über 10:1 Tastkopf	BS031 / 1	Kein Abgleich	Prüfen, f = 70 kHz ±7 kHz
2.5.2	Bias level adjustment	REC (without signal)	Oscilloscope Millivoltmeter	BS031 / 3 BS001 1-2	PS034	Adjust for V = 70Vpp ±10V other way Adjust for V = 3mV ± 0.1mV
	Vormagne-tisierungs-Einstellung	REC (ohne Signal)	Oszilloskop Milli-Voltmeter	BS031 / 3 BS001 1-2	PS034	Auf V = 70Vss ±10V einstellen andere Methode Auf V = 3mV ± 0,1mV einstellen

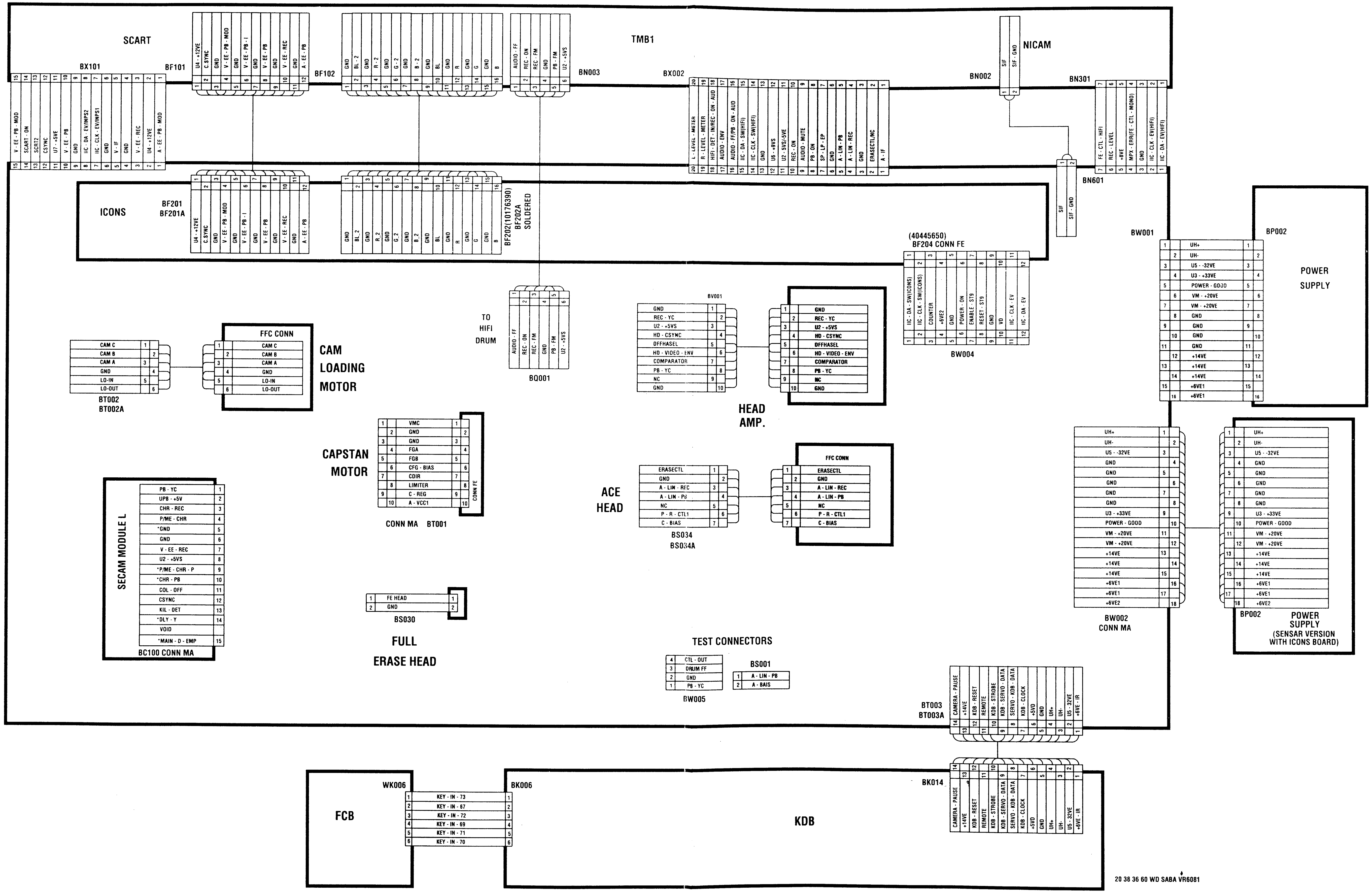
SERVICE SETUP VALUES - VALEURS DU SETUP (MODE SERVICE) - SERVICE MODE EINSTELLUNGEN - VALORI SERVICE SETUP - VALORES DE CONFIGURACION DEL MODO SERVICIO

MODEL	SERVICE SETUP VALUE																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
VPH 6600 N	0	0	0	2	2	0	1	9	6	0	0	9	1	1	2	4	1	4
VPH 6601	5	1	0	8	2	2	2	3	2	3	0	3	0	3	2	4	1	0
VPH 6680	0	0	0	2	5	0	3	1	6	7	1	5	1	1	2	4	1	5
VPH 6697SENSAR	7	2	0	9	1	1	3	1	2	7	0	7	1	1	3	4	1	0
VPH 6750	0	1	1	0	9	E	4	C	3	0	9	9	8	A				
VPH 6751	0	1	0	8	2	2	1	9	2	4	0	1	1	1	3	5	1	0
VPH 6780	0	0	0	2	5	0	3	1	6	7	1	5	1	1	3	5	1	5
VPH 6790	0	0	0	3	5	0	3	1	6	7	0	7	1	1	7	5	1	5
T 8006 HIFI	5	1	0	8	1	2	1	9	2	0	0	1	0	9	0	4	0	0
M 9560 HIFI	4	1	0	8	2	2	1	9	2	0	0	9	0	3	2	4	1	0
M 9560 SA	4	2	0	9	2	1	2	3	2	3	0	3	0	3	2	4	1	0
M 9571 HIFI	4	1	0	2	2	2	3	1	6	7	1	5	0	3	7	6	1	0
M 9680 HIFI	4	0	0	2	2	2	3	1	6	7	1	5	1	1	2	4	1	5
V 3450 SV	5	1	0	8	2	2	2	3	2	3	0	1	0	3	2	4	1	0
VR 6081	5	1	0	8	2	2	1	9	2	0	0	1	0	3	2	4	0	3
VR 6087 / F	5	0	0	1	2	0	2	3	6	3	0	1	0	3	2	4	0	3
VR 7081	5	1	0	8	2	2	1	9	2	0	0	1	1	1	2	4	1	0
VR 8083 H	0	1	0	8	2	2	1	9	6	0	0	1	1	1	3	4	1	0
VR 8087	0	1	1	0	9	E	0	C	3	0	9	9	8	A				

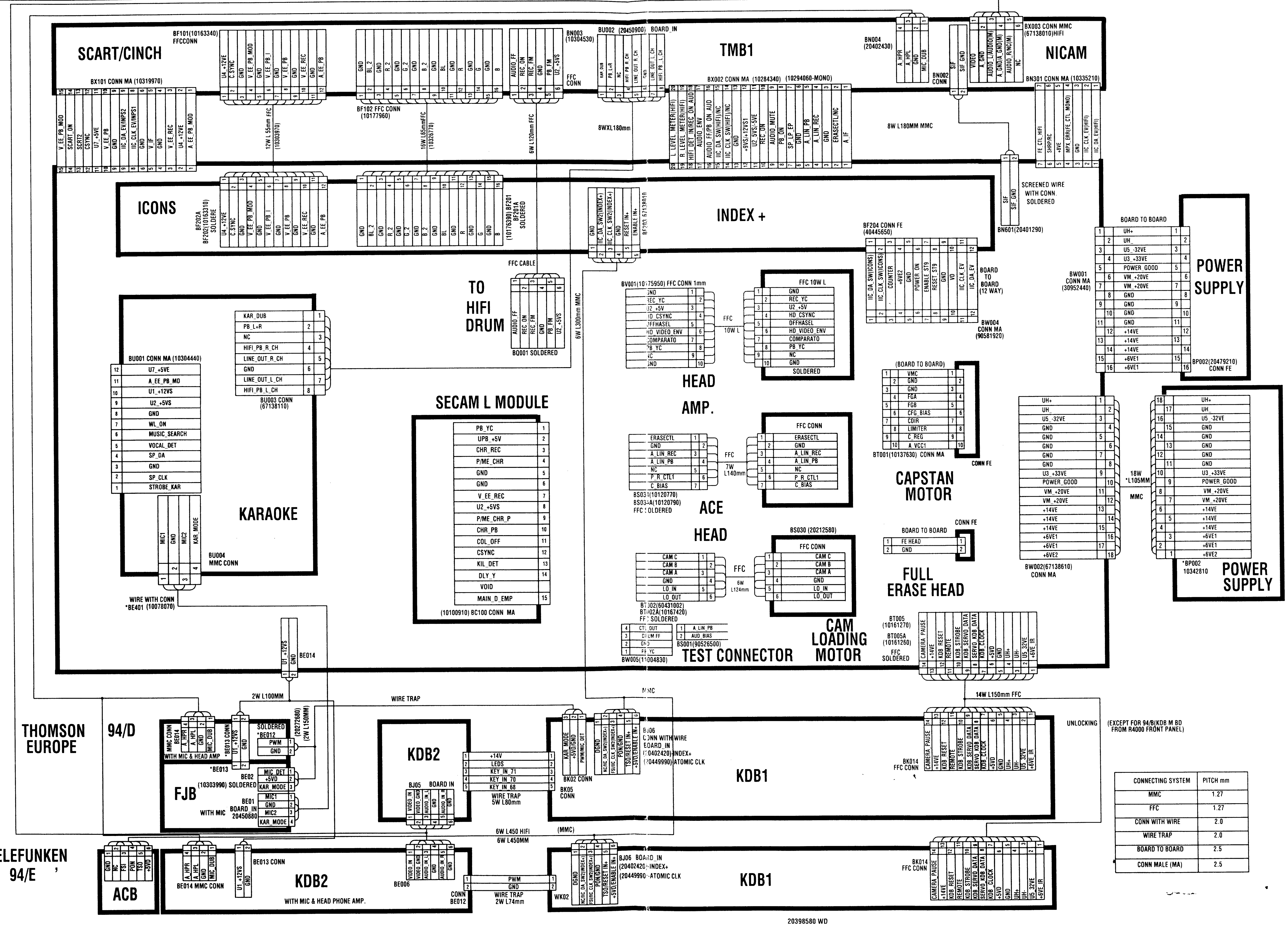
Abbreviations / Abreviations / Abkürzungen

AC	Alternating Current
ACC	Automatic Color Control
ACK	Automatic Color Killer
AD.REF	Analog/Digital Converter Reference
AE	Audio Erase
AFC	Automatic Frequency Control
AGC	Automatic Gain Control
A_IF	Audio IF
ALC	Automatic Level Control
AMP	Amplifier
APC	Automatic Phase Control
AP.CONT	Aperture Control
AV	Audio-Video
A/V SWP	Audio/Video Switching Point (DRUM FF)
B.EMPH	Burst Emphasis
B.DEEMPH	Burst Deemphasis
BG	Burst Gate
BID	Burst Identification
BLK	Blanking
BPF	Band Pass Filter
CAP	Capstan
CBC	Cable Box Control (Satellite Control)
CCD	Charge Coupled Device
CH	Channel
CFG	Capstan Frequency Generator
CLK	Clock
COMP	Comparator
CONV	Converter
CPWM	Capstan Pulse Width Modulation
C-REG	Capstan Regulation
CR	Color Rotary
CS	Chip Select
CSYNC	Composite Synch
CTL	Control
DC	Direct Current
D.LIM	Double Limitter
DEEMPH	Deemphasis
DET	Detector
D-FG	Drum Frequency Generator
DFF	Drum Flip Flop
DIF.EQ	Differential Equalizer
DIG	Digital
DLY	Delay
DOC	Drop Out Compensation
E-E	Electronic-Electronic
EMPH	Emphasis
ENV	Envelope
EP	Extended Play
EQ	Equalizer
F.E	Full Erase
F.REW	Fast Rewind
F.FWD	Fast Forward
F/R	Forward/Rewind
FCB	Front Connection Board
FF	Fast Forward
FG	Frequency Generator
FMCI	FM Carrier Interleave
FWD	Forward
GND	Ground
GCA	Gain Controlled Amplifier
HASEL	Head Amplifier Select
HAB	Head Amplifier Board
HD	Horizontal Synch Pulse
HPF	High Pass Filter
I.R	Infra Red
ID	Identification
INP/IN	Input
KDB	Key Display Board
LIM	Limitter
LP	Long Play
LPF	Low Pass Filter
MESECAM	Middle East Secam
NC	Noise Canceller
OSD	On Screen Display
PB	Play Back
PB_C	Play Back Chroma
PCB	Printed Circuit Board
PDC	Program Delivery Control
PG	Pulse Generator
PH	Pseudo Horizontal Synch
PIF	Picture IF
PLL	Phase Locked Loop
PS	Phase Switch
PV	Pseudo Vertical Synch
PWM	Pulse Width Modulation
REC	Record
REC_C	Record Chroma
REW	Rewind
REV	Reverse
SCL	Serial Clock
SDA	Serial Data
SEC	SECAM
SU REEL	Supply Reel
SMPS	Switch Mode Power Supply
SP	Standard Play
SS	Synch Separator
SW	Switch
TU REEL	Take Up Reel
TMB	Terminal Board
VAL	Components without value and not on the PCB
VCA	Voltage Controlled Amplifier
VCO	Voltage Controlled Oscillator
VCR	Video Cassette Recorder
VD	Supply Voltage Digital
VE	Voltage (Ever)
V_ENV	Video Envelope
V_IF	Video IF
VS	Voltage (Switched)
VM	Motor Voltage (Drum & Loading motor)
VMC	Motor Voltage (Capstan motor)
VPS	Video Program System
W/D	White/Dark
Y/C	Luminance/Chrominance

WIRING DIAGRAM - SCHEMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES (VR 6081 - VR 6087/F)

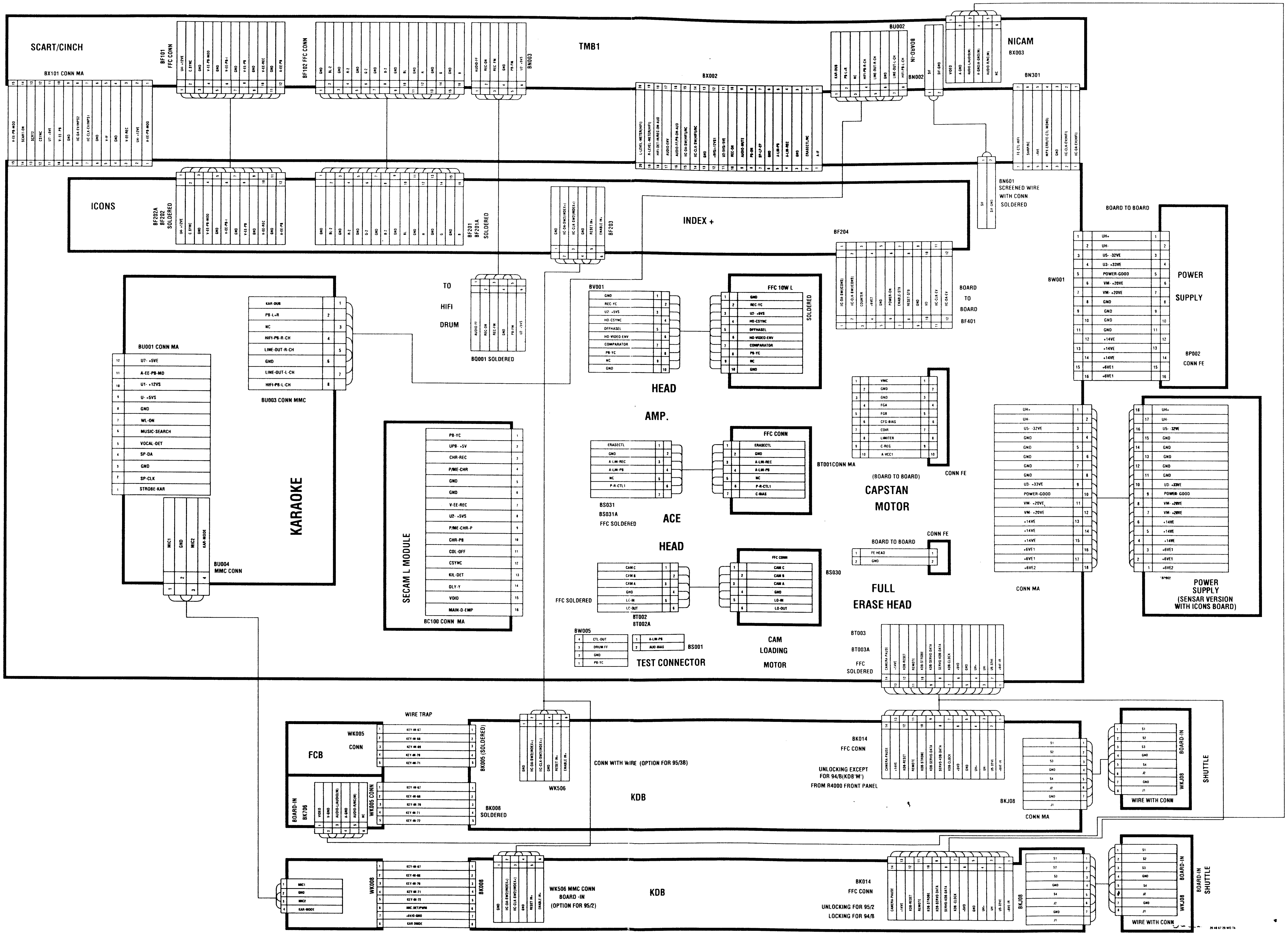

SCART
BX101
BF101
BF102
TMB1
BN003
BX002
NICAM
BN002
BN301
BN601
ICONS
BF201
BF201A
BF202(10176390)
BF202A
SOLDERED
(40445650)
BF204 CONN FE
BW004
BW001
BP002
POWER SUPPLY
TO HIFI DRUM
BQ001
FFC CONN
CAM LOADING MOTOR
BT002
BT002A
CAM C
CAM B
CAM A
GND
LO-IN
LO-OUT
BV001
HEAD AMP.
REC - YC
U2 - +5VS
HD - CSYNC
OFFHASEL
HD - VIDEO - ENV
COMPARATOR
PB - YC
NC
CAPSTAN MOTOR
VMC
FGA
FGB
CFG - BIAS
CDIR
LIMITER
C - REG
A - VCC1
CONN MA BT001
CONN FE
ACE HEAD
ERASECTL
A - LIN - REC
A - LIN - PB
P - R - CTL1
C - BIAS
BS034
BS034A
SECAM MODULE L
BC100 CONN MA
PB - YC
UPB - +5V
CHR - REC
P/ME - CHR
V - EE - REC
U2 - +5VS
P/ME - CHR - P
CHR - PB
COL - OFF
CSYNC
KIL - DET
DLY - Y
VOID
MAIN - D - EMP
FE HEAD
BS030
FULL ERASE HEAD
TEST CONNECTORS
CTL - OUT
DRUM FF
BW005
BS001
A - LIN - PB
A - BAIS
BW002
CONN MA
UH+
UH-
U5 - -32VE
U3 - +33VE
POWER - GOOD
VM - +20VE
+14VE
+6VE1
+6VE2
BP002
POWER SUPPLY
(SENSAR VERSION WITH ICONS BOARD)
BT003
BT003A
CAMERA - PAUSE
KDB - RESET
REMOTE
KDB - STROBE
KDB - SERVO - DATA
SERVO - KDB - DATA
KDB - CLOCK
+5VD
+5VE - IR
FCB
WK006
BK006
KEY - IN - 73
KEY - IN - 67
KEY - IN - 72
KEY - IN - 69
KEY - IN - 71
KEY - IN - 70
KDB
BK014
20 38 36 60 WD SABA VR6081

WIRING DIAGRAM - SCHEMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES (M9571 HIFI - VR 8087 - VPH 6680 - VPH 6751)

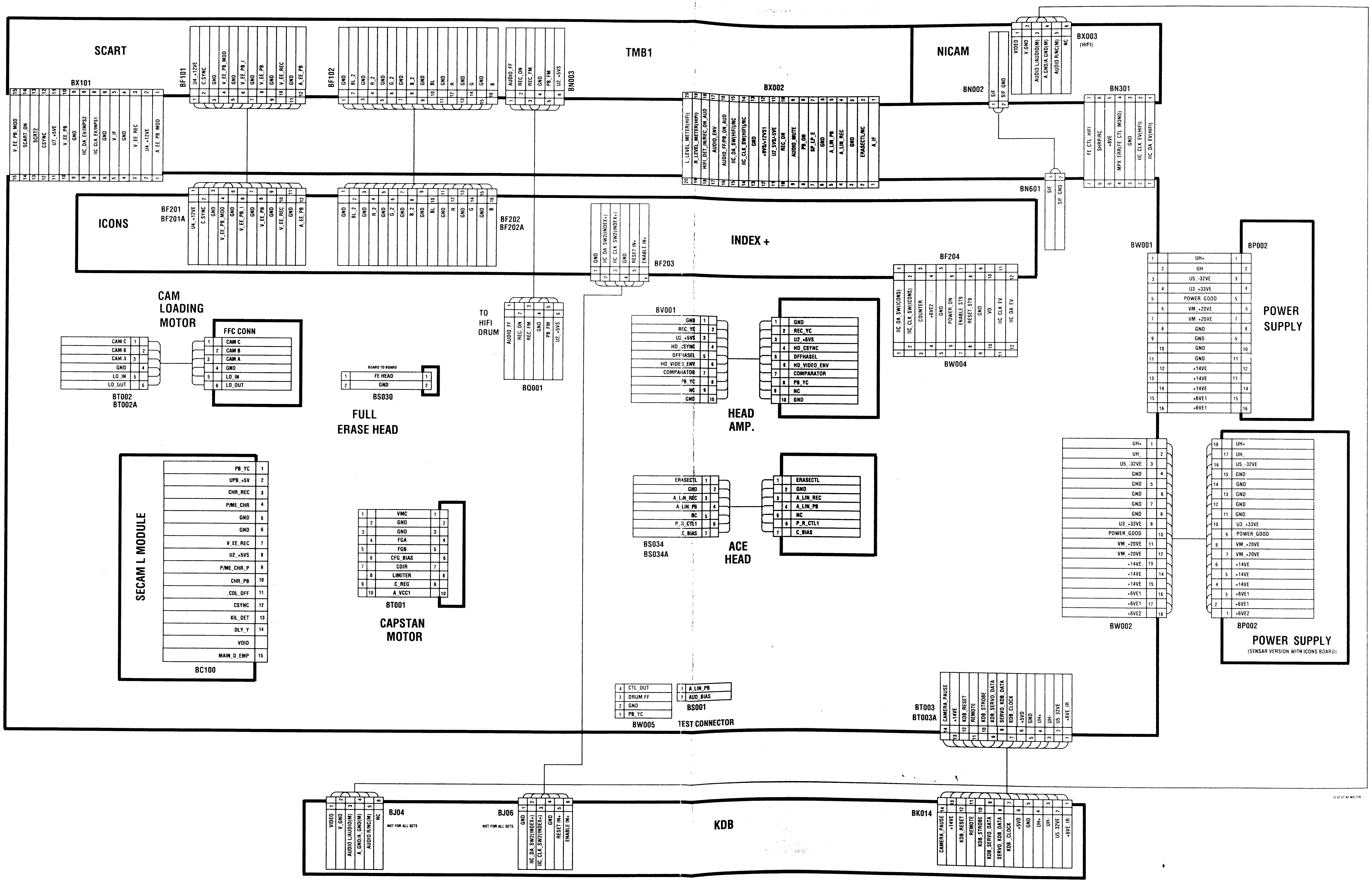

SCART/CINCH
TMB1
NICAM
ICONS
INDEX +
TO HIFI DRUM
POWER SUPPLY
KARAOKE
SECAM L MODULE
HEAD AMP.
ACE HEAD
HEAD
CAPSTAN MOTOR
FULL ERASE HEAD
CAM LOADING MOTOR
TEST CONNECTOR
THOMSON EUROPE
94/D
TELEFUNKEN 94/E
FJB
KDB2
KDB1
ACB
BF101(10163340) FFCCONN
BX101 CONN MA (10319970)
BF102 FFC CONN (10177960)
BN003 (10304530)
BU002 (20450900) BOARD_IN
BX002 CONN MA (10284340) (10294060-MONO)
BN004 (20402430)
BN002 CONN
BX003 CONN MMC (67138010)HIFI
BN301 CONN MA (10335210)
BN601(20401290)
SCREENED WIRE WITH CONN. SOLDERED
BF202A BF202(10163310) SOLDERE
BF201 BF201A SOLDERED (10176390)
BF204 CONN FE (40445650)
BOARD TO BOARD (12 WAY)
BW004 CONN MA (90581920)
BW001 CONN MA (30952440)
BP002(20479210) CONN FE
BQ001 SOLDERED
BU001 CONN MA (10304440)
BU003 CONN (67138110)
BU004 MMC CONN
WIRE WITH CONN *BE401 (10078070)
(10100910) BC100 CONN MA
BV001(10175950) FFC CONN 1mm
FFC 10W L
BS031(10120770) BS031A(10120790) FFC SOLDERED
BT001(10137630) CONN MA
BS030 (20212580)
BT002(60431002) BT002A(10167420) FFC SOLDERED
BW005(11004830)
BS001(90526500)
BT005 (10161270) BT005A (10161260) FFC SOLDERED
BW002(67138610) CONN MA
*BP002 10342810
18W *L105MM MMC
12W L 55mm FFC (10303970)
16W L65mmFFC (10326770)
6W L120mm FFC
8WXL180mm
8W L180MM MMC
6W L300mm MMC
FFC 10W L
FFC 7W L140mm
FFC 6W L124mm
14W L150mm FFC
BE014
2W L100MM
WIRE TRAP
MMC
UNLOCKING
(EXCEPT FOR 94/B(KDB M BD FROM R4000 FRONT PANEL)
BE013 (10303990) SOLDERED
BE02
BE01 BOARD_IN 20450880
WITH MIC
WITH MIC & HEAD AMP
SOLDERED *BE012 (20272680) (2W L150MM)
BJ05 BOARD IN
WIRE TRAP 5W L80mm
BK02 CONN
BK05 CONN
BJ06 CONN WITH WIRE BOARD_IN (20402420)INDEX+ (20449990)ATOMIC CLK
BK014 FFC CONN
6W L450 HIFI 6W L450MM
(MMC)
BE013 CONN
BE014 MMC CONN
BE006
CONN BE012
WIRE TRAP 2W L74mm
WK02
BJ06 BOARD_IN (20402420)INDEX+ (20449990)ATOMIC CLK
WITH MIC & HEAD PHONE AMP.
20398580 WD

CONNECTING SYSTEM	PITCH mm
MMC	1.27
FFC	1.27
CONN WITH WIRE	2.0
WIRE TRAP	2.0
BOARD TO BOARD	2.5
CONN MALE (MA)	2.5

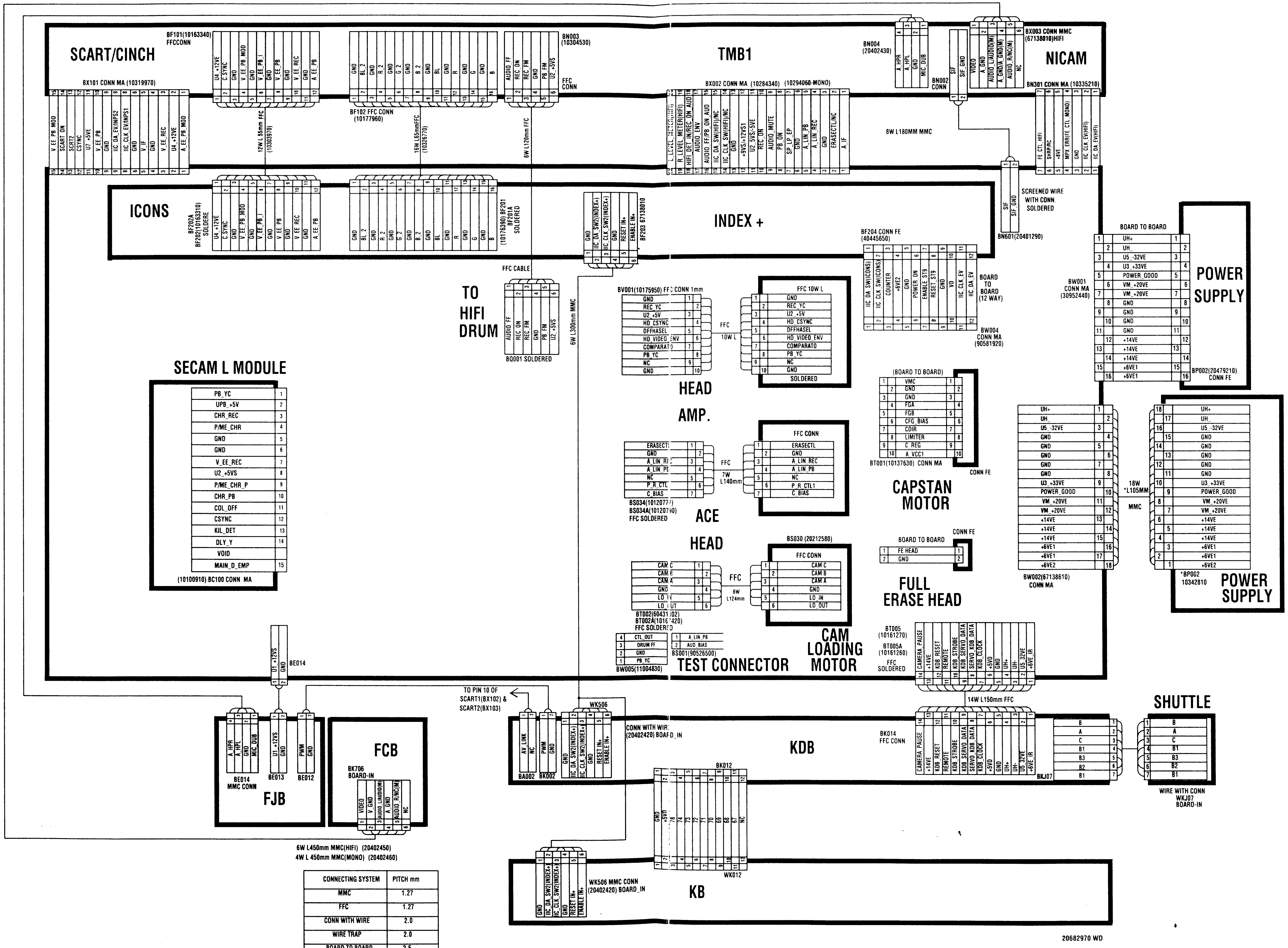
WIRING DIAGRAM - SCHEMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES (VPH 6601 - VPH 6697 SENSAR - VR 7061)


SCART/CINCH
BX101 CONN MA
BF101 FFC CONN
BF102 FFC CONN
BN003
TMB1
BX002
BU002
BOARD-IN
BN002
NICAM
BX003
BN301
ICONS
BF202A
BF202
SOLDERED
BF201
BF201A
SOLDERED
BF203
INDEX +
BN601
SCREENED WIRE
WITH CONN
SOLDERED
BOARD TO BOARD
BF204
BOARD
TO
BOARD
BF401
BW001
POWER
SUPPLY
BP002
CONN FE
TO
HIFI
DRUM
BQ001 SOLDERED
BV001
FFC 10W L
SOLDERED
HEAD
AMP.
BU001 CONN MA
U7- +5VE
A-EE-PB-MD
U1- +12VS
U- +5VS
GND
WL-ON
MUSIC-SEARCH
VOCAL-DET
SP-DA
GND
SP-CLK
STROBE-KAR
KAR-DUB
PB-L+R
NC
HIFI-PB-R-CH
LINE-OUT-R-CH
GND
LINE-OUT-L-CH
HIFI-PB-L-CH
BU003 CONN MMC
KARAOKE
MIC1
GND
MIC2
KAR-MODE
BU004
MMC CONN
SECAM L MODULE
PB-YC
UPB- +5V
CHR-REC
P/ME-CHR
GND
GND
V-EE-REC
U2- +5VS
P/ME-CHR-P
CHR-PB
COL-OFF
CSYNC
KIL-DET
OLY-Y
VOID
MAIN-D-EMP
BC100 CONN MA
FFC CONN
BT001CONN MA
(BOARD TO BOARD)
CONN FE
CAPSTAN
MOTOR
BS031
BS031A
FFC SOLDERED
ACE
HEAD
BOARD TO BOARD
CONN FE
FULL
ERASE HEAD
BS030
FFC SOLDERED
BT002
BT002A
CAM
LOADING
MOTOR
BW005
BS001
TEST CONNECTOR
BT003
BT003A
FFC
SOLDERED
UH+
UH-
U5- -32VE
U3- +33VE
POWER-GOOD
VM- +20VE
GND
+14VE
+6VE1
+6VE2
CONN MA
POWER
SUPPLY
(SENSAR VERSION
WITH ICONS BOARD)
WIRE TRAP
WK005
CONN
FCB
BK005 (SOLDERED)
WK506
CONN WITH WIRE (OPTION FOR 95/38)
KDB
BK014
FFC CONN
UNLOCKING EXCEPT
FOR 94/B(KDB'M')
FROM R4000 FRONT PANEL
BKJ08
CONN MA
BOARD-IN
WKJ08
SHUTTLE
WIRE WITH CONN
BOARD-IN
BK706
WK005 CONN
BK008
SOLDERED
WK008
BK008
WK506 MMC CONN
BOARD -IN
(OPTION FOR 95/2)
KDB
BK014
FFC CONN
UNLOCKING FOR 95/2
LOCKING FOR 94/B
BKJ08
BOARD-IN
SHUTTLE
WKJ08
WIRE WITH CONN

WIRING DIAGRAM - SCHEMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES (VPH 6600 N - T8006 HIFI - M 9560 HIFI - M 9560 SA - M 9680 HIFI)

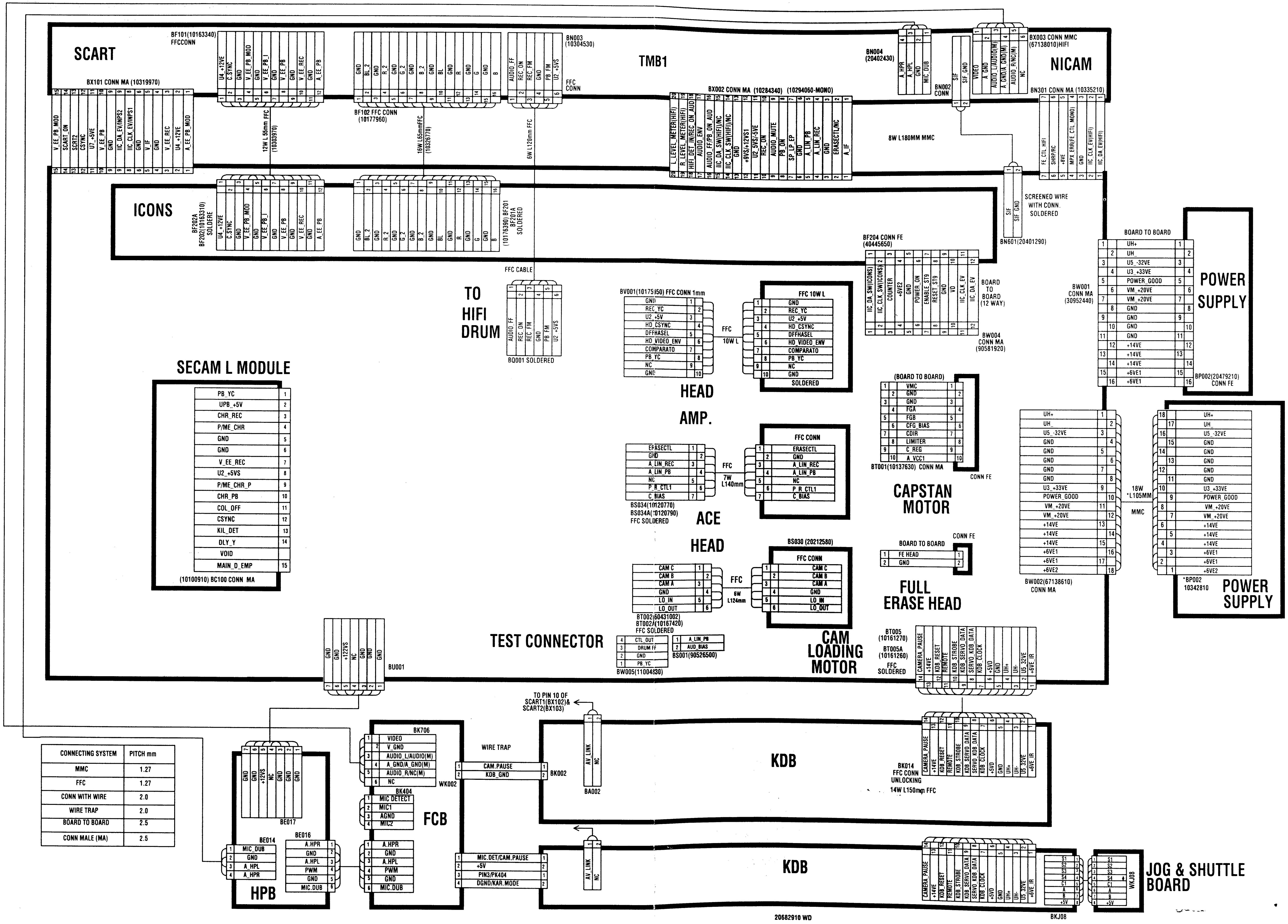

SCART
BX101
V_EE_PB_MOD
SCART_ON
SCRT2
CSYNC
U7_+5VE
V_EE_PB
GND
IIC_DA_EV/NPS2
IIC_CLK_EV/NPS1
GND
V_IF
GND
V_EE_REC
U4_+12VE
A_EE_PB_MOD
BF101
U4_+12VE
C_SYNC
GND
V_EE_PB_MOD
GND
V_EE_PB_I
GND
V_EE_PB
GND
V_EE_REC
GND
A_EE_PB
BF102
GND
BL_2
GND
R_2
GND
G_2
GND
B_2
GND
BL
GND
R
GND
G
GND
B
AUDIO_FF
REC_ON
REC_FM
GND
PB_FM
U2_+5VS
BN003
TMB1
BX002
L_LEVEL_METER(HIFI)
R_LEVEL_METER(HIFI)
HIFI_DET_IN/REC_ON_AUD
AUDIO_ENV
AUDIO_FF/PB_ON_AUD
IIC_DA_SW(HIFI)/NC
IIC_CLK_SW(HIFI)/NC
GND
+9VS/+12VS1
U2_5VS/-5VE
REC_ON
AUDIO_MUTE
PB_ON
SP_LP_E
GND
A_LIN_PB
A_LIN_REC
GND
ERASECTL/NC
A_IF
NICAM
BN002
SIF
SIF GND
VIDEO
V_GND
AUDIO L/AUDIO(M)
A_GND/A_GND(M)
AUDIO R/NC(M)
NC
BX003
(HIFI)
BN301
FE_CTL_HIFI
SHRP/RC
+6VE
MPX_ERR(FE_CTL_MONO)
GND
IIC_CLK_EV(HIFI)
IIC_DA_EV(HIFI)
BN601
SIF
SIF GND
ICONS
BF201
BF201A
BF202
BF202A
IIC_DA_SW2(INDEX+)
IIC_CLK_SW2(INDEX+)
GND
RESET IN+
ENABLE IN+
BF203
INDEX +
BF204
IIC_DA_SW(ICONS)
IIC_CLK_SW(ICONS)
COUNTER
+6VE2
GND
POWER_ON
ENABLE ST9
RESET ST9
GND
VD
IIC_CLK_EV
IIC_DA_EV
BW004
BW001
BP002
UH+
UH
U5_-32VE
U3_+33VE
POWER_GOOD
VM_+20VE
GND
+14VE
+6VE1
POWER SUPPLY
CAM LOADING MOTOR
FFC CONN
CAM C
CAM B
CAM A
GND
LO_IN
LO_OUT
BT002
BT002A
BOARD TO BOARD
FE HEAD
GND
BS030
FULL ERASE HEAD
TO HIFI DRUM
AUDIO_FF
REC_ON
REC_FM
GND
PB_FM
U2_+5VS
BQ001
BV001
GND
REC_YC
U2_+5VS
HD_CSYNC
DFFHASEL
HD_VIDEO_ENV
COMPARATOR
PB_YC
NC
HEAD AMP.
ERASECTL
A_LIN_REC
A_LIN_PB
P_R_CTL1
C_BIAS
BS034
BS034A
ACE HEAD
BW002
UH_
U5_-32VE
+6VE2
POWER SUPPLY
(SENSAR VERSION WITH ICONS BOARD)
SECAM L MODULE
PB_YC
UPB_+5V
CHR_REC
P/ME_CHR
GND
V_EE_REC
U2_+5VS
P/ME_CHR_P
CHR_PB
COL_OFF
CSYNC
KIL_DET
DLY_Y
VOID
MAIN_D_EMP
BC100
VMC
GND
FGA
FGB
CFG_BIAS
CDIR
LIMITER
C_REG
A_VCC1
BT001
CAPSTAN MOTOR
CTL_OUT
DRUM FF
GND
PB_YC
BW005
A_LIN_PB
AUD_BIAS
BS001
TEST CONNECTOR
BT003
BT003A
CAMERA_PAUSE
+14VE
KDB_RESET
REMOTE
KDB_STROBE
KDB_SERVO_DATA
SERVO_KDB_DATA
KDB_CLOCK
+5VD
GND
UH-
UH+
U5_-32VE
+6VE_IR
BJ04
NOT FOR ALL SETS
BJ06
NOT FOR ALL SETS
KDB
BK014

WIRING DIAGRAM - SCHEMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES (VPH 6790)


SCART/CINCH
TMB1
NICAM
ICONS
INDEX +
TO HIFI DRUM
SECAM L MODULE
HEAD AMP.
ACE HEAD
CAPSTAN MOTOR
FULL ERASE HEAD
CAM LOADING MOTOR
TEST CONNECTOR
POWER SUPPLY
POWER SUPPLY
SHUTTLE
FCB
FJB
KDB
KB
BX101 CONN MA (10319970)
BF101(10163340) FFCCONN
BF102 FFC CONN (10177960)
BN003 (10304530)
BX002 CONN MA (10284340) (10294060-MONO)
BN004 (20402430)
BX003 CONN MMC (67138010)HIFI
BN301 CONN MA (10335210)
8W L180MM MMC
SCREENED WIRE WITH CONN. SOLDERED
BN601(20401290)
BF204 CONN FE (40445650)
BW004 CONN MA (90581920)
BW001 CONN MA (30952440)
BP002(20479210) CONN FE
BW002(67138610) CONN MA
*BP002 10342810
18W *L105MM MMC
BV001(10175950) FFC CONN 1mm
FFC 10W L
BS034(10120774) BS034A(10120780) FFC SOLDERED
FFC 7W L140mm
BS030 (20212580)
BT002(60431102) BT002A(10161420) FFC SOLDERED
FFC 6W L124mm
BT001(10137630) CONN MA
CONN FE
BOARD TO BOARD
BT005 (10161270) BT005A (10161260) FFC SOLDERED
BW005(11004830)
BS001(90526500)
(10100910) BC100 CONN MA
BE014
BE014 MMC CONN
BE013
BE012
BK706 BOARD-IN
6W L450mm MMC(HIFI) (20402450)
4W L 450mm MMC(MONO) (20402460)
TO PIN 10 OF SCART1(BX102) & SCART2(BX103)
WK506
BA002
BK002
CONN WITH WIRE (20402420) BOARD_IN
BK012
WK012
WK506 MMC CONN (20402420) BOARD_IN
BK014 FFC CONN
14W L150mm FFC
BKJ07
WIRE WITH CONN WKJ07 BOARD-IN
BQ001 SOLDERED
FFC CABLE
6W L300mm MMC
12W L 55mm FFC (10303970)
16W L65mmFFC (10326770)
6W L120mm FFC
BF201 BF201A SOLDERED
BF203 67138010
BF202A BF202(10163310) SOLDERED
20682970 WD

CONNECTING SYSTEM	PITCH mm
MMC	1.27
FFC	1.27
CONN WITH WIRE	2.0
WIRE TRAP	2.0
BOARD TO BOARD	2.5
CONN MALE (MA)	2.5

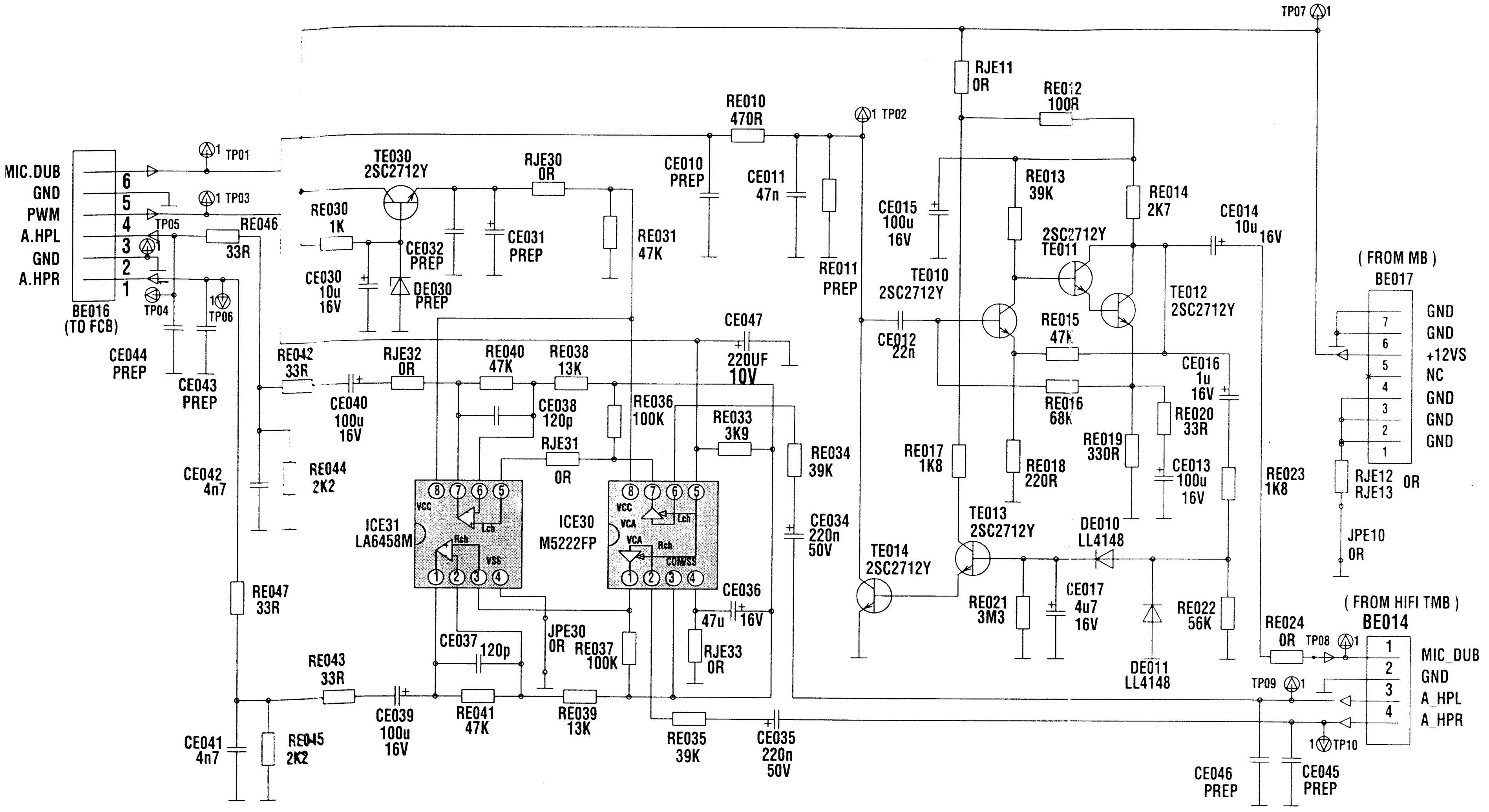
WIRING DIAGRAM - SCHEMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES (VPH 6750 - VPH 6780 - VR 8083H)


SCART
TMB1
NICAM
ICONS
BX101 CONN MA (10319970)
BF101(10163340) FFCCONN
BF102 FFC CONN (10177960)
BN003 (10304530)
FFC CONN
BN004 (20402430)
BN002 CONN
BX003 CONN MMC (67138010)HIFI
BN301 CONN MA (10335210)
BX002 CONN MA (10284340) (10294060-MONO)
8W L180MM MMC
12W L 55mm FFC (10300970)
16W L65mmFFC (10326770)
6W L120mm FFC
BF202A BF202(10163310) SOLDERE
(10176390) BF201 BF201A SOLDERED
SCREENED WIRE WITH CONN. SOLDERED
BN601(20401290)
BF204 CONN FE (40445650)
BOARD TO BOARD (12 WAY)
BW004 CONN MA (90581920)
FFC CABLE
TO HIFI DRUM
BQ001 SOLDERED
BV001(10175150) FFC CONN 1mm
FFC 10W L
HEAD AMP.
SECAM L MODULE
(10100910) BC100 CONN MA
FFC 7W L140mm
BS034(10120770) BS034A(10120790) FFC SOLDERED
ACE HEAD
BS030 (20212580)
FFC 6W L124mm
BT002(60431002) BT002A(10167420) FFC SOLDERED
TEST CONNECTOR
BW005(11004830)
BS001(90526500)
CAM LOADING MOTOR
(BOARD TO BOARD)
BT001(10137630) CONN MA
CONN FE
CAPSTAN MOTOR
BOARD TO BOARD
FE HEAD
FULL ERASE HEAD
BOARD TO BOARD
BW001 CONN MA (30952440)
BP002(20479210) CONN FE
POWER SUPPLY
BW002(67138610) CONN MA
18W L105MM MMC
*BP002 10342810
POWER SUPPLY
BT005 (10161270) BT005A (10161260) FFC SOLDERED
BU001
TO PIN 10 OF SCART1(BX102)& SCART2(BX103)
BK706
WIRE TRAP
WK002
BK002
BK404
FCB
BA002
KDB
BK014 FFC CONN UNLOCKING 14W L150mm FFC
BE017
BE014
BE016
HPB
KDB
JOG & SHUTTLE BOARD
WKJ08
BKJ08
20682910 WD

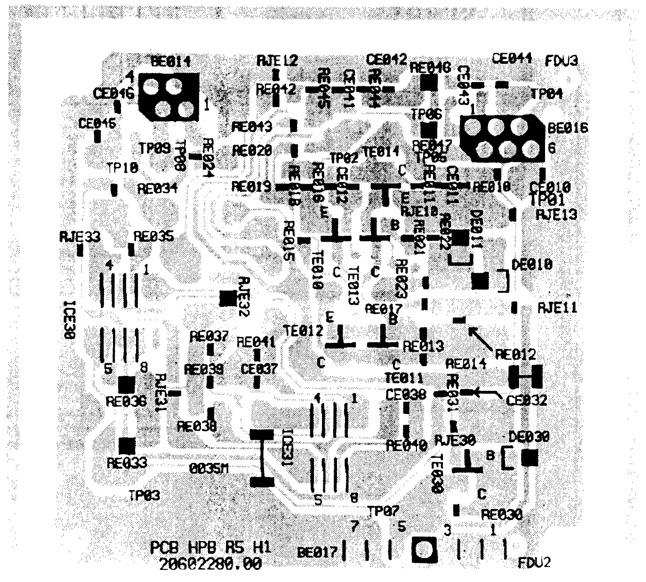
CONNECTING SYSTEM	PITCH mm
MMC	1.27
FFC	1.27
CONN WITH WIRE	2.0
WIRE TRAP	2.0
BOARD TO BOARD	2.5
CONN MALE (MA)	2.5

AMPLIFIER HEADPHONE/MICROPHONE BOARD - PLATINE AMPLIFICATEUR CASQUE/MICRO - VERSTÄRKERPLATTE KOPFHÖRER/MIKROFON - PIASTRA MICROFONO/AMPLIFICATORE CUFFIA - PLACA AMPLIFICADOR AURICULARES/MICRÓFONO (M 9680 HIFI)

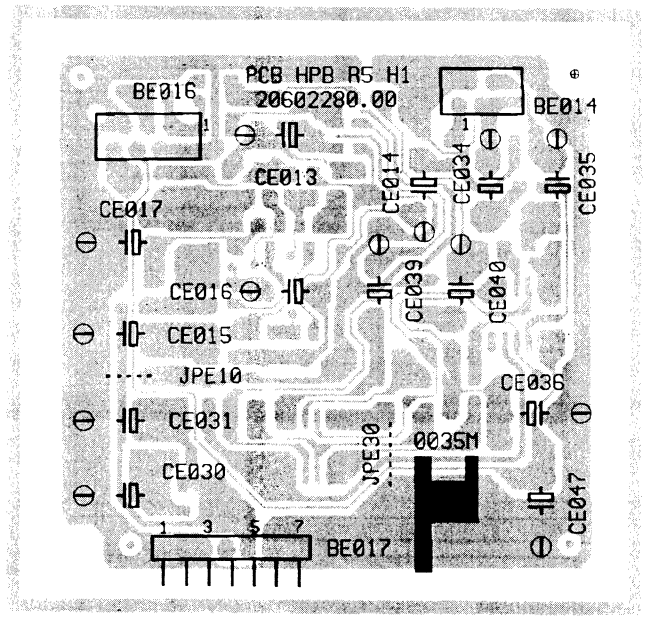
SCHEMATIC DIAGRAM -SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


MIC.DUB
GND
PWM
A.HPL
GND
A.HPR
BE016
(TO FCB)
TP01
TP03
TP05
TP04
TP06
RE046 33R
CE044 PREP
CE043 PREP
TE030 2SC2712Y
RJE30 0R
RE030 1K
CE030 10u 16V
CE032 PREP
DE030 PREP
CE031 PREP
RE031 47K
RE010 470R
CE010 PREP
CE011 47n
RE011 PREP
TP02
RJE11 0R
RE012 100R
RE013 39K
RE014 2K7
CE015 100u 16V
2SC2712Y TE011
TE010 2SC2712Y
CE014 10u 16V
TE012 2SC2712Y
CE012 22n
RE015 47K
RE016 68K
CE016 1u 16V
RE020 33R
RE019 330R
RE017 1K8
RE018 220R
CE013 100u 16V
RE023 1K8
TE013 2SC2712Y
TE014 2SC2712Y
DE010 LL4148
RE021 3M3
CE017 4u7 16V
RE022 56K
DE011 LL4148
CE047 220UF 10V
RE042 33R
RJE32 0R
RE040 47K
RE038 13K
CE040 100u 16V
CE038 120p
RE036 100K
RE033 3K9
RJE31 0R
RE034 39K
CE034 220n 50V
CE042 4n7
RE044 2K2
ICE31 LA6458M
ICE30 M5222FP
VCC
VCA
Lch
Rch
VSS
COM/SS
CE036 47u 16V
RE047 33R
CE037 120p
JPE30 0R
RE037 100K
RJE33 0R
RE043 33R
CE039 100u 16V
RE041 47K
RE039 13K
RE035 39K
CE035 220n 50V
CE041 4n7
RE045 2K2
TP07
(FROM MB)
BE017
GND
GND
+12VS
NC
GND
GND
GND
RJE12 RJE13 0R
JPE10 0R
(FROM HIFI TMB)
BE014
RE024 0R
TP08
TP09
TP10
MIC_DUB
GND
A_HPL
A_HPR
CE046 PREP
CE045 PREP
20597890 HPB H1

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre

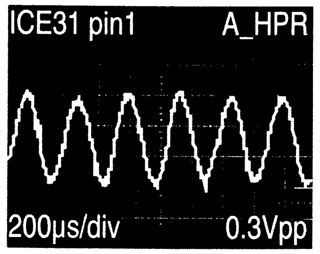

PCB HPB R5 H1
20602280.00
BE014
BE016
BE017
ICE30
ICE31
TP07
FDU2
FDU3

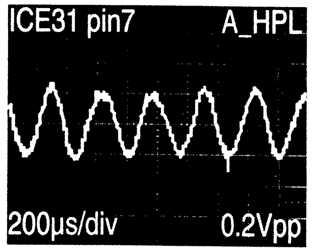
Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

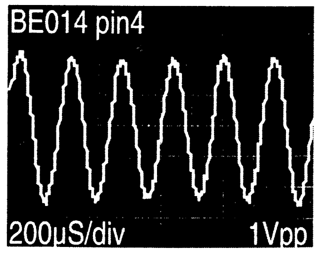

PCB HPB R5 H1
20602280.00
BE016
BE014
CE013
CE014
CE034
CE035
CE017
CE016
CE039
CE040
CE015
JPE10
CE036
CE031
JPE30
0035M
CE030
CE047
BE017
1
3
5
7

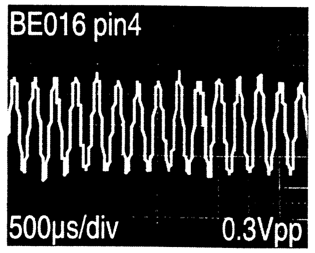
HPB		MODE		
LOC	PIN	EE	PLAY	REC.
ICE30	1	5.6	5.6	5.5
	2	5.6	5.6	5.6
	3	5.7	5.6	5.6
	4	0	0	0
	5	5.6	5.6	5.5
	6	5.6	5.6	5.6
	7	5.6	5.6	5.5
	8	11.4	11.4	11.3
ICE31	1	5.6	5.6	5.5
	2	5.6	5.6	5.6
	3	5.6	5.6	5.6
	4	0	0	0
	5	5.6	5.6	5.5
	6	5.6	5.6	5.6
	7	5.6	5.6	5.5
	8	11.4	11.4	11.3
TE030	E	11.4	11.4	11.4
	B	12.1	12.1	12
	C	12.2	12.2	12.2

HPB		MODE		
LOC	PIN	EE	PLAY	REC.
TE014	E	0	0	0
	B	0	0	0
	C	0	0	0
TE013	E	0	0	0
	B	0	0	0
	C	12.2	12.2	12.2
TE010	E	0	0	0
	B	0.7	0.6	0.6
	C	1.9	1.9	0
TE011	E	1.5	1.4	1.4
	B	2	1.9	1.9
	C	5	5	5
TE012	E	0.8	0.7	0.7
	B	1.5	1.4	1.4
	C	5.1	5	5





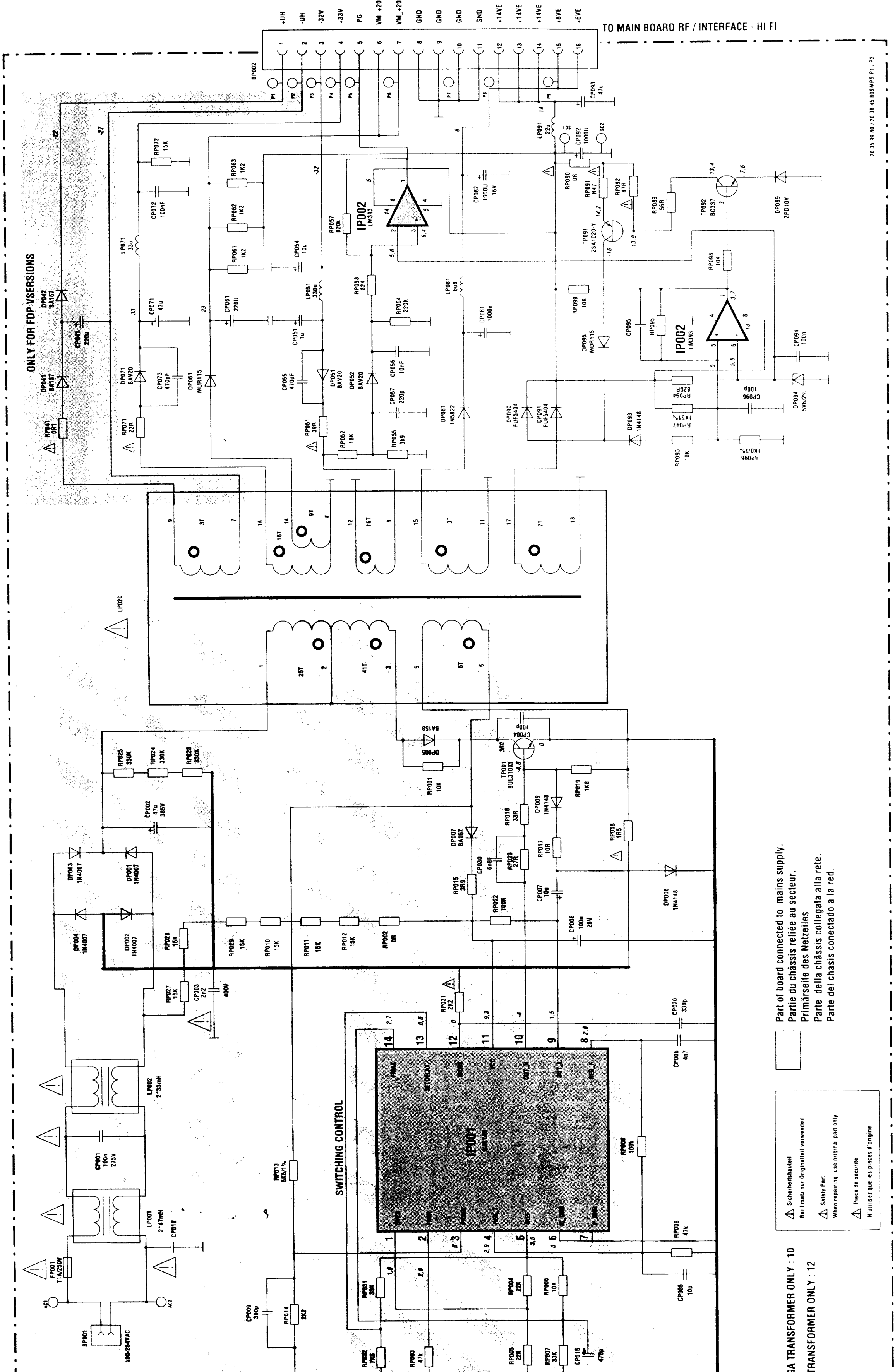




POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

(VPH6600N-VPH6601-VPH6680-VPH6750-VPH6751-VPH6780-M9560HIFI/SA-M9571HIFI M9680HIFI-T8006HIFI-V3450SV-VR6081-VR6087/F-VR7081-VR8083H-VR8087)


+UH
-UH
-32V
+33V
PG
VM_+20VE
VM_+20VE
GND
GND
GND
GND
+14VE
+14VE
+14VE
+6VE
+6VE
TO MAIN BOARD RF / INTERFACE - HI FI
BP002
P1
P2
P3
P4
P5
P6
P7
P8
P9
CP093 47u
LP091 22u
CP092 1000U
RP090 0R
RP091 R47
RP092 47R
RP089 56R
TP092 BC337
DP089 ZPD10V
TP091 2SA1020-Y
RP098 10K
RP099 10K
DP095 MUR115
CP095
RP095
IP002 LM393
CP094 100n
RP094 820R
CP096 100p
RP097 1K5/1%
DP094 5V6/2%
DP093 1N4148
RP093 10K
RP096 1K0/1%
DP090 FUF5404
DP091 FUF5404
CP082 1000U 16V
LP081 6u8
CP081 1000u
DP081 1N5822
RP072 15K
CP072 100nF
LP071 33u
CP071 47u
DP071 BAV20
CP073 470pF
DP081 MUR115
RP071 27R
RP063 1K2
RP062 1K2
RP061 1K2
CP061 220U
CP054 10u
LP051 330u
CP051 1u
CP055 470pF
DP051 BAV20
DP052 BAV20
RP051 39R
RP052 18K
RP057 820k
RP053 82K
RP054 220K
CP056 10nF
CP057 220p
RP055 3k9
ONLY FOR FDP VSERSIONS
DP042 BA157
DP041 BA157
CP041 220p
RP041 0R1
LP020
3T
9T
16T
5T
25T
41T
DP005 BA158
CP004 100p
TP001 BUL310XI
RP001 10K
RP025 330K
RP024 330K
RP023 330K
CP002 47u 385V
DP003 1N4007
DP001 1N4007
DP004 1N4007
DP002 1N4007
DP007 BA157
CP030 6n8
RP020 27R
RP016 33R
DP009 1N4148
RP019 1K8
RP017 10R
RP018 1R5
RP015 3R9
RP022 100K
CP007 10u
CP008 100u 25V
DP008 1N4148
RP029 15K
RP009 15K
RP010 15K
RP011 15K
RP012 15K
RP002 0R
RP027 15K
CP003 2n2
400V
RP021 2K2
CP020 330p
CP006 4n7
LP002 2*33mH
CP001 100n 275V
LP001 2*47mH
CP012
FP001 T1A/250V
BP001
180-264VAC
AC1
AC2
SWITCHING CONTROL
IP001
RP013 5K6/1%
CP009 390p
RP014 2K2
RP031 39K
RP032 7K5
RP003 47K
RP004 22K
RP005 22K
RP006 10K
RP007 33K
CP015 470p
RP008 100K
RP000 47k
CP005 10p

Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzeiles.
Parte della châssis collegata alla rete.
Parte del chasis conectado a la red.

⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

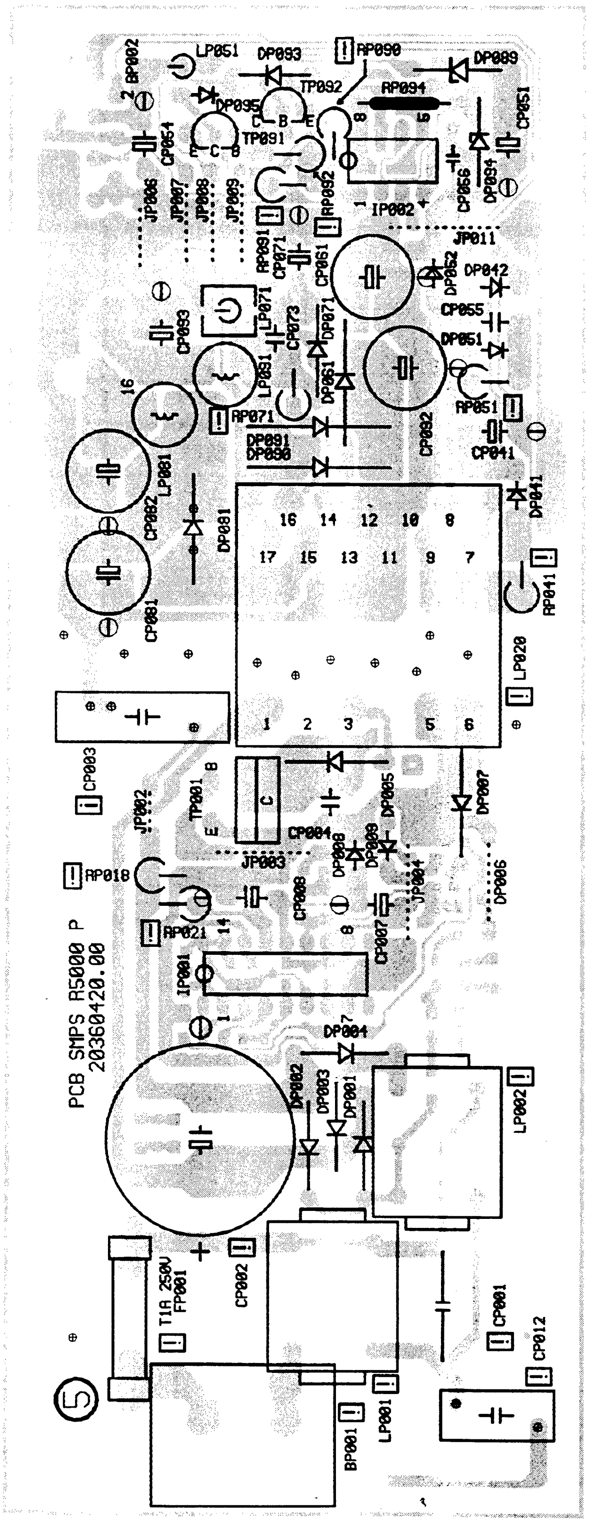
⚠ Safety Part
When repairing, use original part only

⚠ Piece de securite
N'utilisez que les pieces d'origine

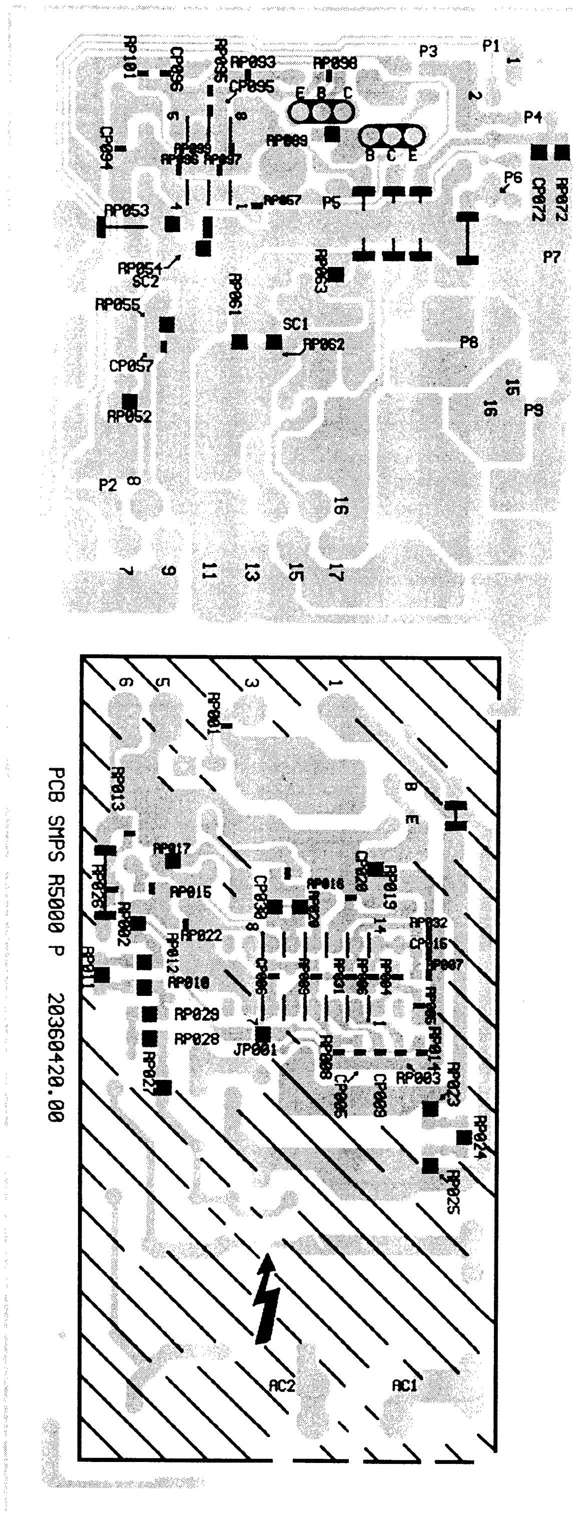
FOR OREGA TRANSFORMER ONLY : 10
FOR TDK TRANSFORMER ONLY : 12

POWER SUPPLY BOARD - PLATINE ALIMENTATION - NETZTEIL LEITERPLATTE - PIASTRA ALIMENTAZIONE - PLATINA ALIMENTACIÓN

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes


LP051
DP093
RP090
DP089
RP002
TP092
RP094
DP095
CP051
CP054
TP091
C-B-E
E-C-B
JP006
JP007
JP008
JP009
RP092
CP056
DP094
IP002
RP091
CP071
CP061
JP011
DP062
DP042
CP093
LP071
CP073
DP071
CP055
DP051
LP091
DP061
RP051
CP092
RP071
DP091
DP090
CP041
CP082
LP081
DP081
DP041
CP081
16 14 12 10 8
17 15 13 11 9 7
RP041
LP020
1 2 3 5 6
CP003
JP002
TP001
CP004
DP005
DP007
JP003
RP018
DP008
DP009
CP008
CP007
JP004
DP006
RP021
IP001
PCB SMPS R5000 P
20360420.00
DP004
DP002
DP003
DP001
LP002
T1A 250V
FP001
CP002
CP001
CP012
BP001
LP001
5

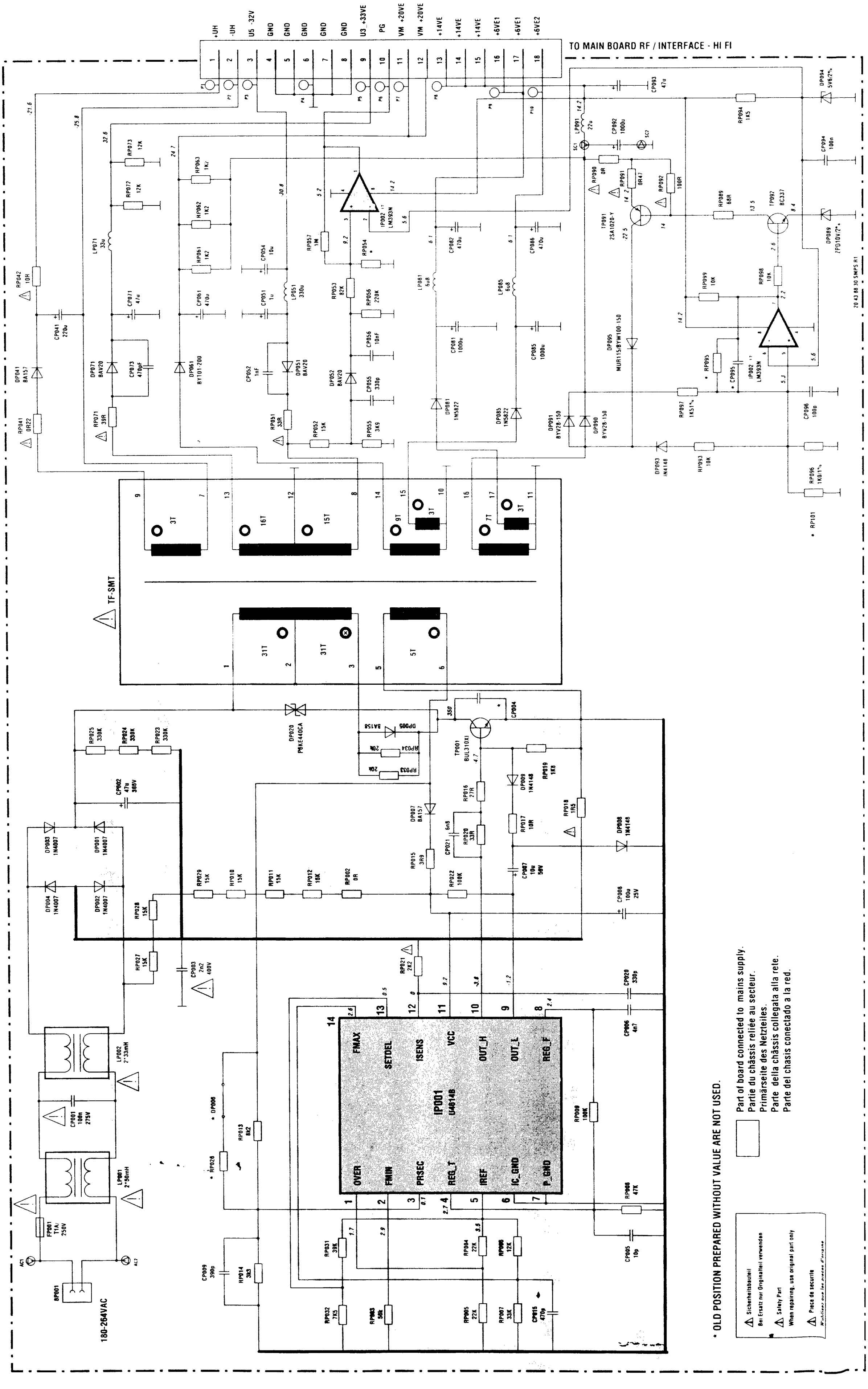
Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


RP101
CP096
RP095
RP093
CP095
RP098
P3
P1
E B C
P4
CP094
RP096
RP097
RP099
B C E
P6
CP072
RP072
RP053
RP057
P5
P7
RP054
SC2
RP063
RP055
RP061
SC1
RP062
CP057
P8
RP052
P9
P2
7 9 11 13 15 17
RP001
PCB SMPS R5000 P 20360420.00
RP013
RP017
RP015
RP016
RP019
RP020
RP026
RP002
RP022
RP032
CP015
RP007
RP011
RP012
RP010
RP029
RP028
JP001
RP027
RP008
CP005
CP009
RP003
RP023
RP024
RP025
AC2
AC1

POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE -

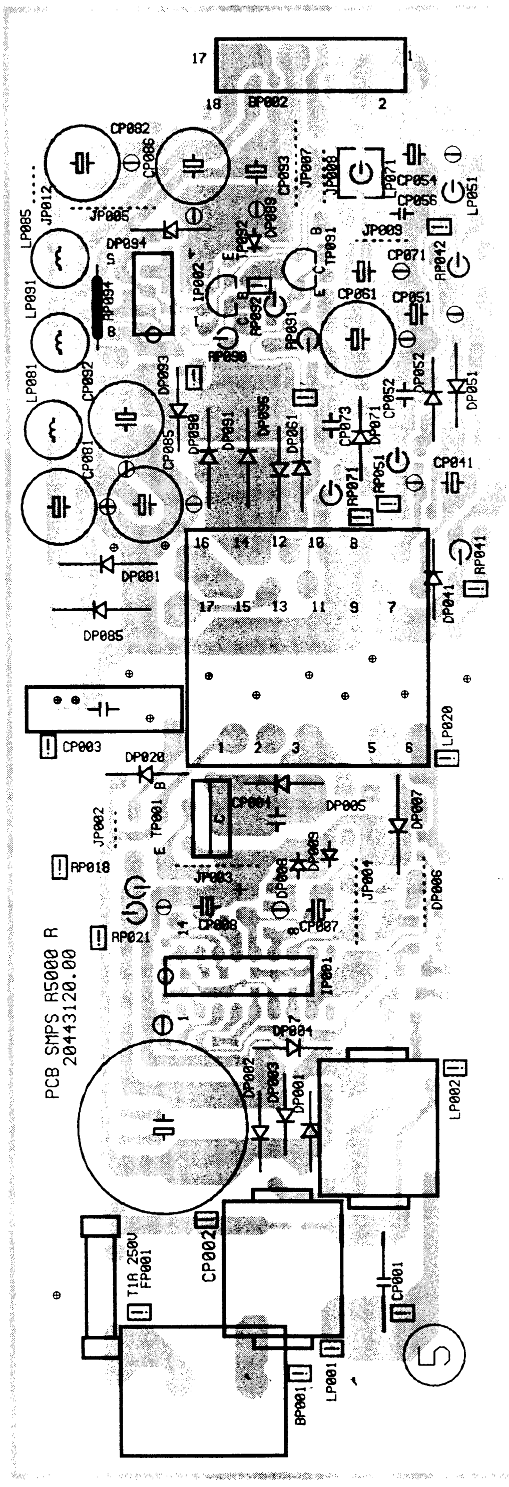
SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA -ESQUEMA

(VPH 6697 SENSAR - VPH 6790)

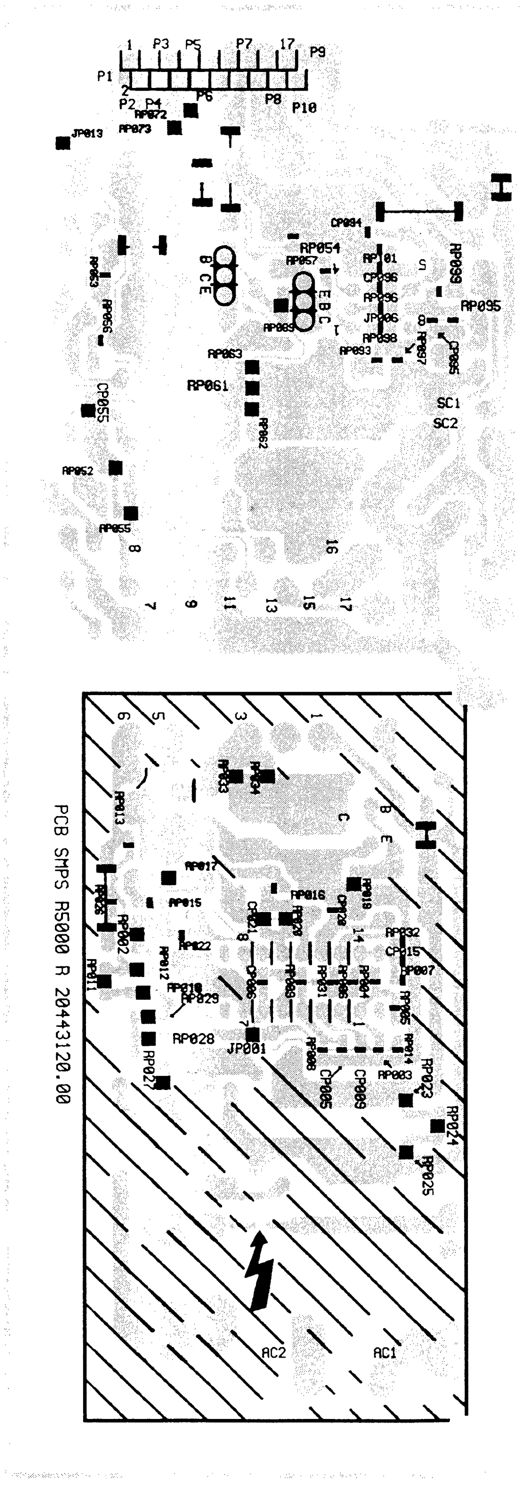

+UH
-UH
U5 -32V
GND
U3 +33VE
PG
VM +20VE
+14VE
+6VE1
+6VE2
TO MAIN BOARD RF / INTERFACE - HI FI
TF-SMT
3T
16T
15T
9T
7T
31T
5T
IP001
U4014B
FMAX
SETDEL
ISENS
VCC
OUT_H
OUT_L
REG_F
OVER
FMIN
PRSEC
REG_T
IREF
IC_GND
P_GND
IP002
LM393N
TP001
BUL310XI
TP091
2SA1020-Y
TP092
BC337
DP020
P6KE440CA
DP001 1N4007
DP002 1N4007
DP003 1N4007
DP004 1N4007
LP001 2*50mH
LP002 2*33mH
CP001 100n 275V
FP001 T1A 250V
AC1
AC2
BP001
180-264VAC
DP091 BYV28-150
DP090 BYV28-150
DP095 MUR115/BYW100-150
DP061 BYT01-200
DP081 1N5827
DP085 1N5822
DP089 ZPD10V/2%
DP094 5V6/2%
* OLD POSITION PREPARED WITHOUT VALUE ARE NOT USED.
Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteiles.
Parte della châssis collegata alla rete.
Parte del chasis conectado a la red.
Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden
Safety Part
When repairing, use original part only
Pièce de securité
20 43 88 30 SMPS R1

POWER SUPPLY BOARD - PLATINE ALIMENTATION - NETZTEIL LEITERPLATTE - PIASTRA ALIMENTAZIONE - PLATINA ALIMENTACION

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

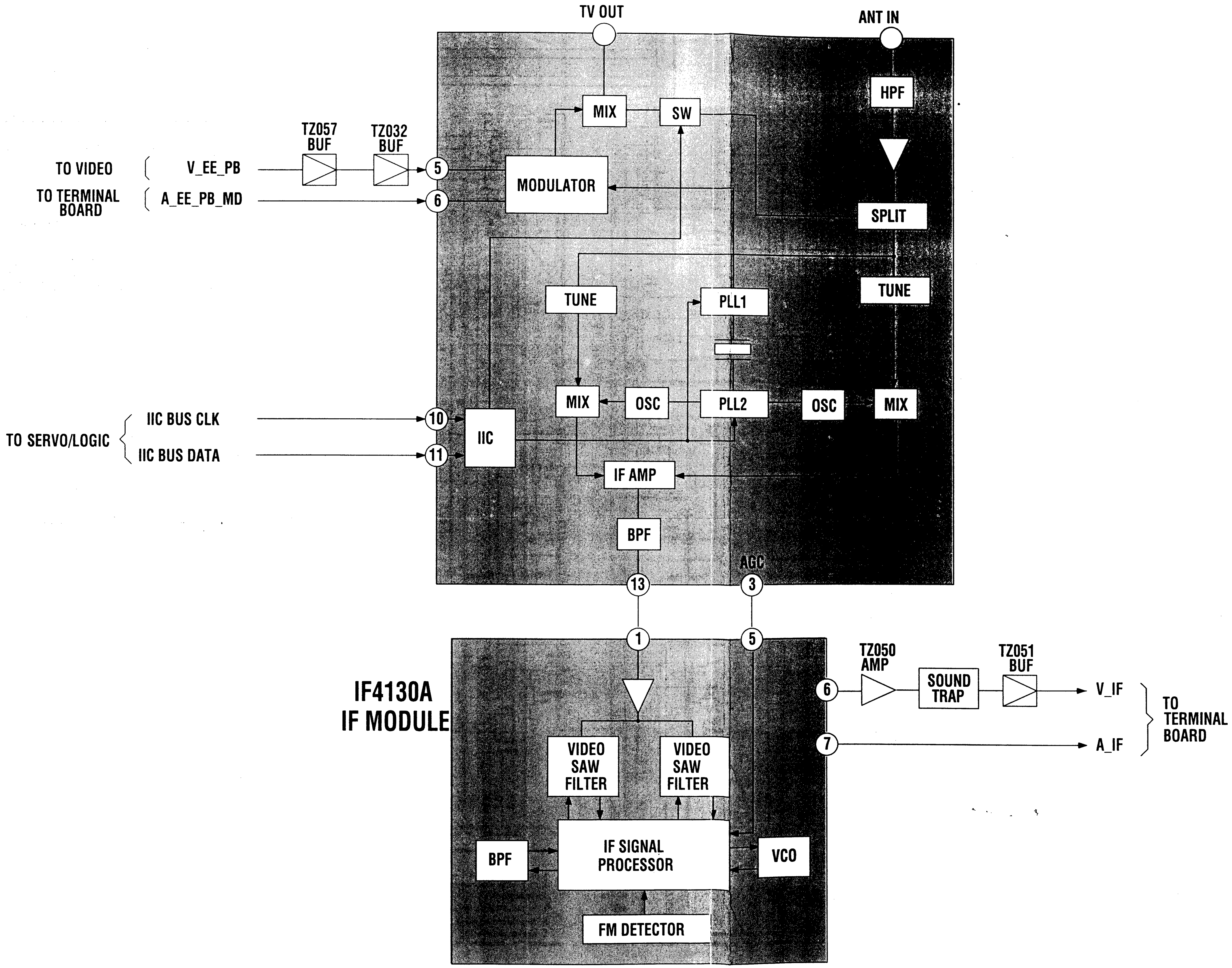

BP002
CP082
CP086
JP012
JP005
LP085
DP094
RP094
LP091
LP081
CP092
CP081
CP085
DP093
DP081
DP085
CP003
DP020
TP001
JP002
RP018
RP021
CP004
DP005
DP007
JP003
CP008
CP007
JP004
DP006
IP001
DP004
DP002
DP003
DP001
LP002
LP020
DP041
RP041
CP041
CP051
DP051
DP052
CP052
CP061
CP071
RP042
JP009
CP054
CP056
LP051
LP071
JP007
CP093
CP089
TP091
IP092
RP090
T1A 250V FP001
CP002
CP001
LP001
BP001
PCB SMPS R5000 R 20443120.00

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
JP013
RP072
RP073
CP094
RP054
RP057
CP056
RP095
RP099
RP063
RP061
RP062
CP055
RP052
RP055
SC1
SC2
RP033
RP034
RP013
RP017
RP015
RP016
RP019
RP022
RP012
RP010
RP029
RP028
JP001
RP027
RP011
RP002
RP032
CP015
RP007
RP023
RP024
RP025
CP009
CP005
RP003
AC2
AC1
PCB SMPS R5000 R 20443120.00

BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBILD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES

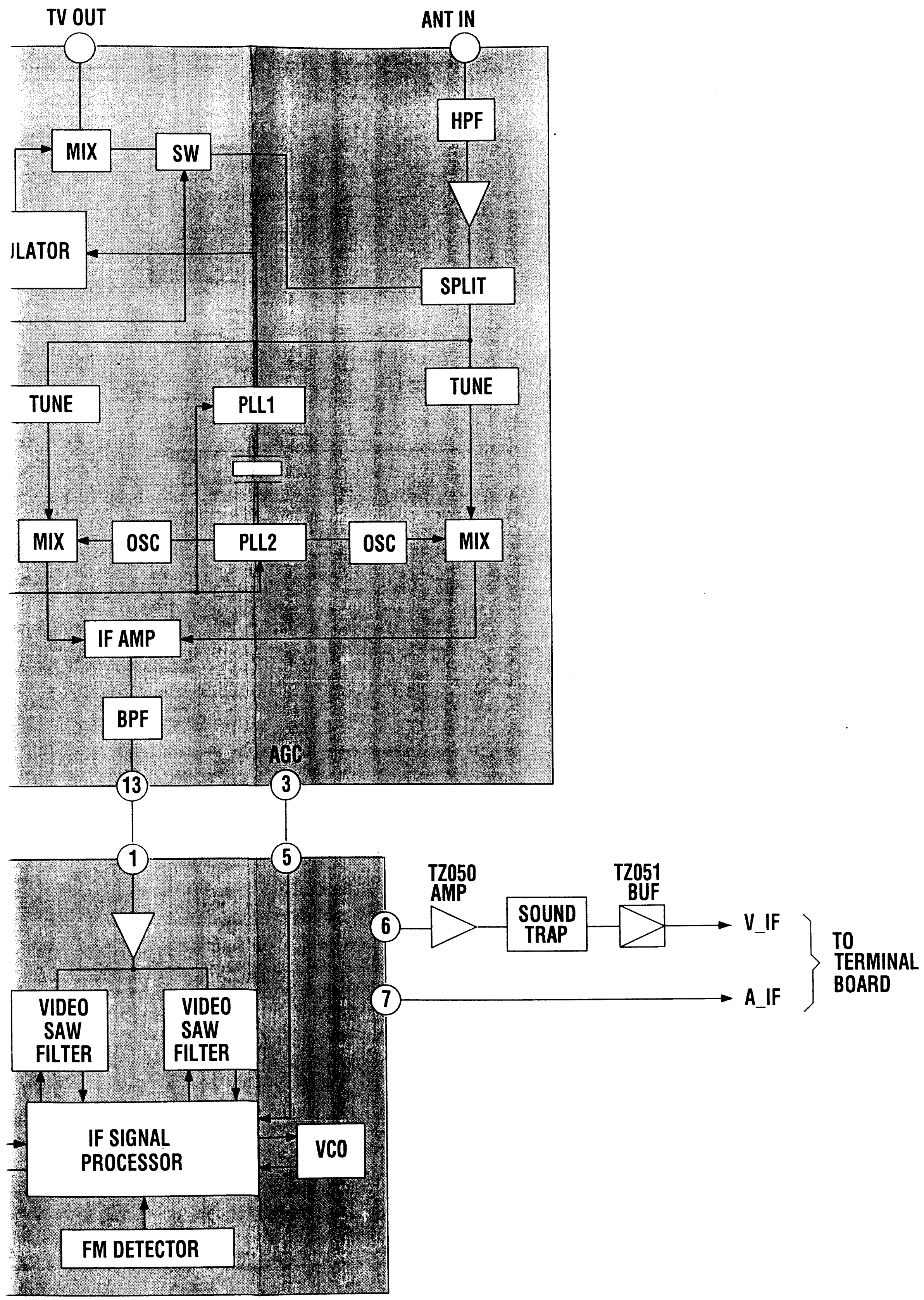
FE 5100
TUNER & MODULATOR


TV OUT
ANT IN
HPF
MIX
SW
SPLIT
TZ057 BUF
TZ032 BUF
TO VIDEO
TO TERMINAL BOARD
V_EE_PB
A_EE_PB_MD
5
6
MODULATOR
TUNE
PLL1
TUNE
MIX
OSC
PLL2
OSC
MIX
TO SERVO/LOGIC
IIC BUS CLK
IIC BUS DATA
10
11
IIC
IF AMP
BPF
AGC
13
3
1
5
IF4130A
IF MODULE
TZ050 AMP
SOUND TRAP
TZ051 BUF
6
7
V_IF
A_IF
TO TERMINAL BOARD
VIDEO SAW FILTER
VIDEO SAW FILTER
BPF
IF SIGNAL PROCESSOR
VCO
FM DETECTOR

ı - INTERFACE ALIMENTATION / CIRCUITS AUDIO - NETZEIL INTERFACE / AUDIO ELABORAZIONE AUDIO - INTERFAZ ALIMENTACIÓN / TRATAMIENTO AUDIO

EMA A BLOCCHI - ESQUEMA DE BLOQUES

TOR



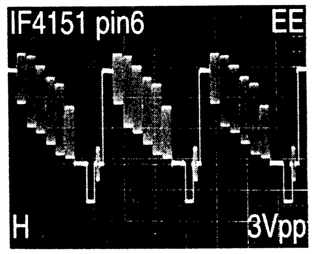
TV OUT
ANT IN
MIX
SW
HPF
ILATOR
SPLIT
TUNE
PLL1
TUNE
MIX
OSC
PLL2
OSC
MIX
IF AMP
BPF
AGC
13
3
1
5
6
7
TZ050
AMP
SOUND
TRAP
TZ051
BUF
V_IF
A_IF
TO
TERMINAL
BOARD
VIDEO
SAW
FILTER
VIDEO
SAW
FILTER
IF SIGNAL
PROCESSOR
VCO
FM DETECTOR

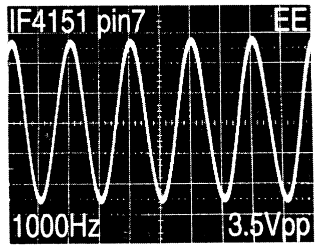
MEASUREMENTS POWER SUPPLY INTERFACE / AUDIO SIGNAL PROCESSING - MESURES INTERFACE / CIRCUITS AUDIO - MESSUNGEN NETZEIL INTERFACE / AUDIO SIGNALVERARBEITUNG - MISURI INTERFACCIA ALIMENTAZIONE / ELABORAZIONE AUDIO - MEDIDAS INTERFAZ ALIMENTACIÓN / TRATAMIENTO AUDIO

INTERFACE		MODE		
LOC	PIN	EE	PLAY	REC.
TUNER	1	0	0	0
	2	5.2	5.2	5.2
	3	7.8	7.8	7.8
	4	12.1	12.1	12.1
	5	0	0	0
	6	0	0	0
	7	12.2	12.2	12.2
	8	5.5	5.5	5.5
	9	32	32	32
	10	4.8	4.8	4.8
	11	4.6	4.6	4.6
	12	1	1	1
	13	1.9	1.9	1.9
IF	1	1.9	1.9	1.9
	2	0	0	0
	3	1	1	1
	4	9.7	9.7	9.7
	5	7.9	7.9	7.9
	6	5.3	5.3	5.3
	7	8.5	8.5	8.5
	8	0	0	0
	9	12.2	12.2	12.2
	10	0	0	0
TG029	E	0	0	0
	B	0	0	0
	C	0	10.8	0
TG030	E	0	0	0
	B	0	4.8	0
	C	12.2	0	12.2
TG031	E	12.2	11.7	12.2
	B	12.2	10.9	12.2
	C	0	11.7	0
TN430	E	13.6	13.6	0
	B	13.8	13.8	0
	C	13.9	13.9	13.8
TN439	E	0	0	0
	B	0	0	0.8
	C	13.5	13.5	0

INTERFACE		MODE		
LOC	PIN	EE	PLAY	REC.
TN640	E	4.8	4.8	4.8
	B	5.5	5.5	5.5
	C	12.2	12.2	12.2
TN641	E	2.8	2.8	2.8
	B	3.4	3.4	3.4
	C	5.5	5.5	5.5
TS030	E	0	0	0
	B	0	0	0.2
	C	13.9	13.9	13.4
TS039	E	0	0	7.5
	B	0	0	8.1
	C	13.9	13.9	13.4
TS119	E	0	0	0
	B	0	4.7	0
	C	4	0	4
TW001	E	0	0	0
	B	0.6	0.6	0.6
	C	0	0	0
TW002	E	31.5	31.5	31.5
	B	0	0	0
	C	31.5	31.5	31.5
TW003	E	12.2	12.2	12.2
	B	12.9	12.9	12.9
	C	12.4	12.4	12.4
TW005	E	5.1	5.1	5.1
	B	5.9	5.9	5.9
	C	5.5	5.5	5.5
TW006	E	0	0	0
	B	5.1	5.1	5.1
	C	0	0	0
TW008	E	8.4	8.4	8.4
	B	9	9	9
	C	13.1	13.1	13.1

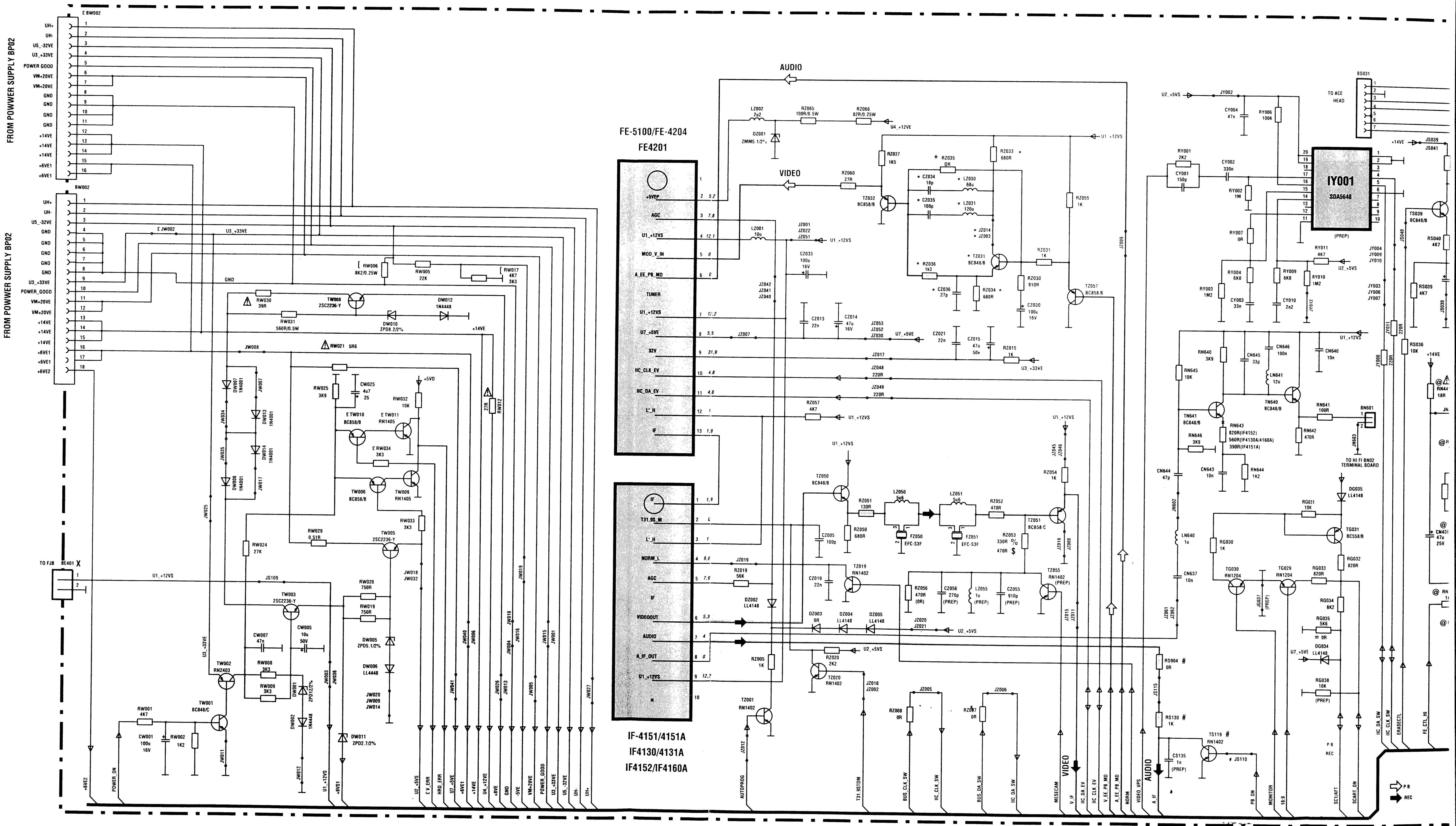
INTERFACE		MODE		
LOC	PIN	EE	PLAY	REC.
TW009	E	0	0	0
	B	0	0	0
	C	5	5	5
TZ001	E	0	0	0
	B	0	0	0
	C	7.5	7.5	7.5
TZ019	E	0	0	0
	B	4.9	4.9	4.9
	C	0	0	0
TZ020	E	0	0	0
	B	0	0	0
	C	4.3	4.3	4.3
TZ050	E	5.2	5.2	5.2
	B	5.9	5.9	5.9
	C	12	12	12
TZ051	E	2.6	2.6	2.6
	B	1.9	1.9	1.9
	C	0	0	0





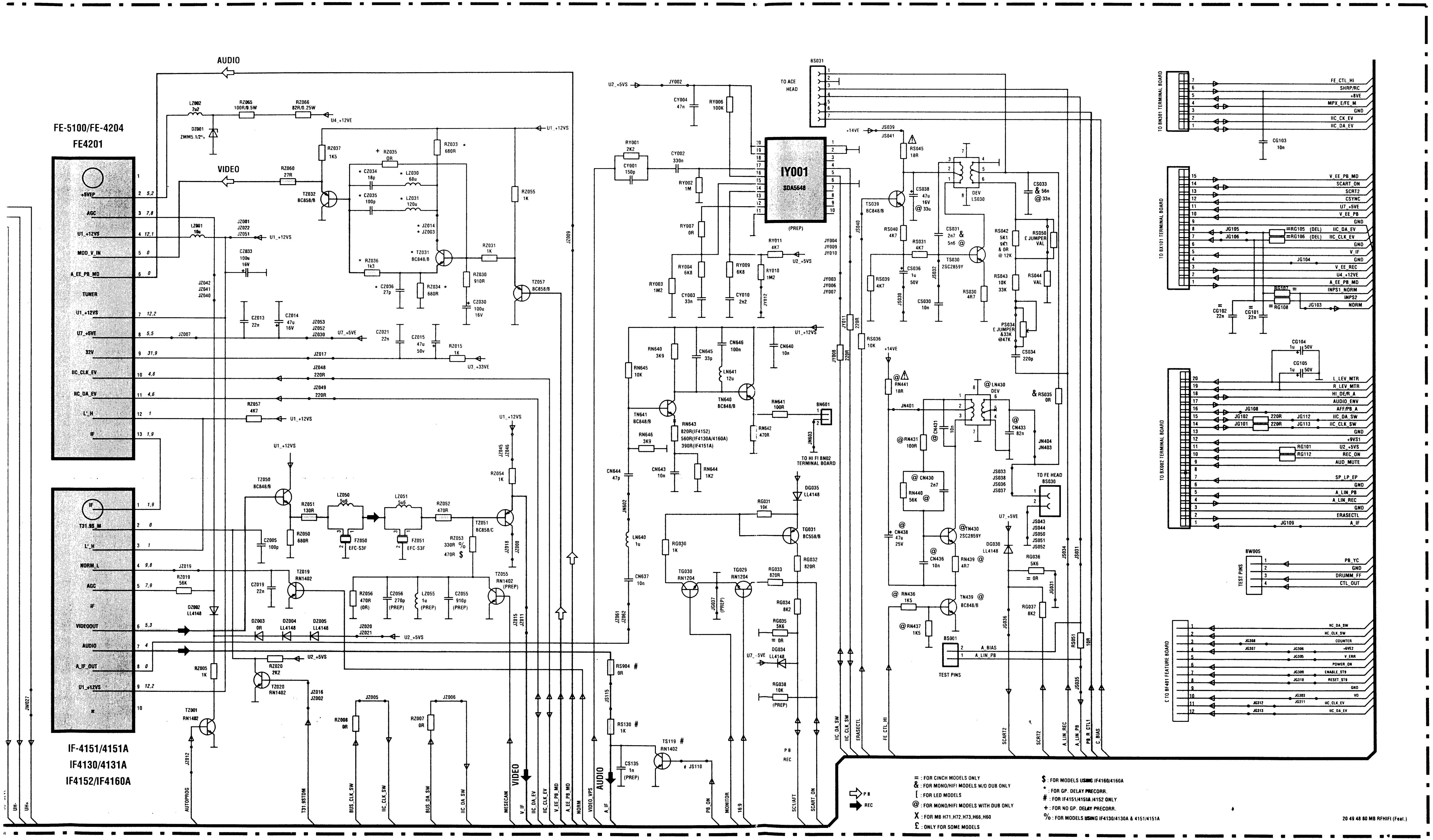
POWER SUPPLY INTERFACE / AUDIO SIGNAL PROCESSING - INTERFACE ALIMENTATION / CIRCUITS AUDIO - NETZTEIL INTERFACE / AUDIO SIGNALVERARBEITUNG - INT ALIMENTAZIONE / ELABORAZIONE AUDIO - INTERFAZ ALIMENTACIÓN / TRATAMIENTO AUDIO

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA (VPH6600N - VPH6601 - VPH6680 - VPH6697 SENSAR - VPH6750 - VPH 6751 - VPH 6780 - VPH 6790 - M9560HIFI/SA M9571HIFI - M9680HIFI - T8006HIFI - VR6087/F - VR7081 - VR 8083SH - VR8087)


FROM POWWER SUPPLY BP02
BW002
UH+
UH-
U5_-32VE
U3_+33VE
POWER GOOD
VM+20VE
GND
+14VE
+6VE1
+6VE2
POWER_GOOD
AUDIO
VIDEO
FE-5100/FE-4204
FE4201
+5VEP
AGC
U1_+12VS
MOD_V_IN
A_EE_PB_MD
TUNER
U7_+5VE
32V
IIC_CLK_EV
IIC_DA_EV
L'_H
IF
T31_9S_M
NORM_L
VIDEOOUT
A_IF_OUT
IF-4151/4151A
IF4130/4131A
IF4152/IF4160A
TO FJB BE401
U4_+12VE
U2_+5VS
U3_+33VE
IY001
SDA5648
(PREP)
BS031
TO ACE HEAD
TO HI FI BN02 TERMINAL BOARD
BN601
FZ050 EFC-S3F
FZ051 EFC-S3F
TZ050 BC848/B
TZ051 BC858/C
TZ032 BC858/B
TZ031 BC848/B
TZ057 BC858/B
TZ019 RN1402
TZ055 RN1402
TZ020 RN1402
TZ001 RN1402
TN641 BC848/B
TN640 BC848/B
TG030 RN1204
TG029 RN1204
TG031 BC558/B
TS039 BC848/B
TS119 RN1402
TW008 2SC2236-Y
TW010 BC858/B
TW011 RN1405
TW006 BC858/B
TW009 RN1405
TW005 2SC2236-Y
TW003 2SC2236-Y
TW002 RN2403
TW001 BC848/C
POWER_ON
+9VS1
U2_+5VS
E_V_ERR
HRD_ERR
U7_+5VE
+6VE1
U4_+12VE
+8VE
GND
-5VE
VM+20VE
POWER_GOOD
U3_+33VE
U5_-32VE
UH-
UH+
AUTOPROG
T31_9STDM
BUS_CLK_SW
IIC_CLK_SW
BUS_DA_SW
IIC_DA_SW
MESECAM
VIDEO
V_IF
IIC_DA_EV
IIC_CLK_EV
V_EE_PB_MD
A_EE_PB_MD
NORM
VIDEO_VPS
AUDIO
A_IF
PB ON
MONITOR
16:9
SCT/AFT
SCART_ON
IIC_DA_SW
IIC_CLK_SW
ERASECTL
FE_CTL_HI
PB
REC

FACE ALIMENTATION / CIRCUITS AUDIO - NETZTEIL INTERFACE / AUDIO SIGNALVERARBEITUNG - INTERFACCIA
IÓN / TRATAMIENTO AUDIO

UEMA (VPH6600N - VPH6601 - VPH6680 - VPH6697 SENSAR - VPH6750 - VPH 6751 - VPH 6780 - VPH 6790 - M9560HIFI/SA -

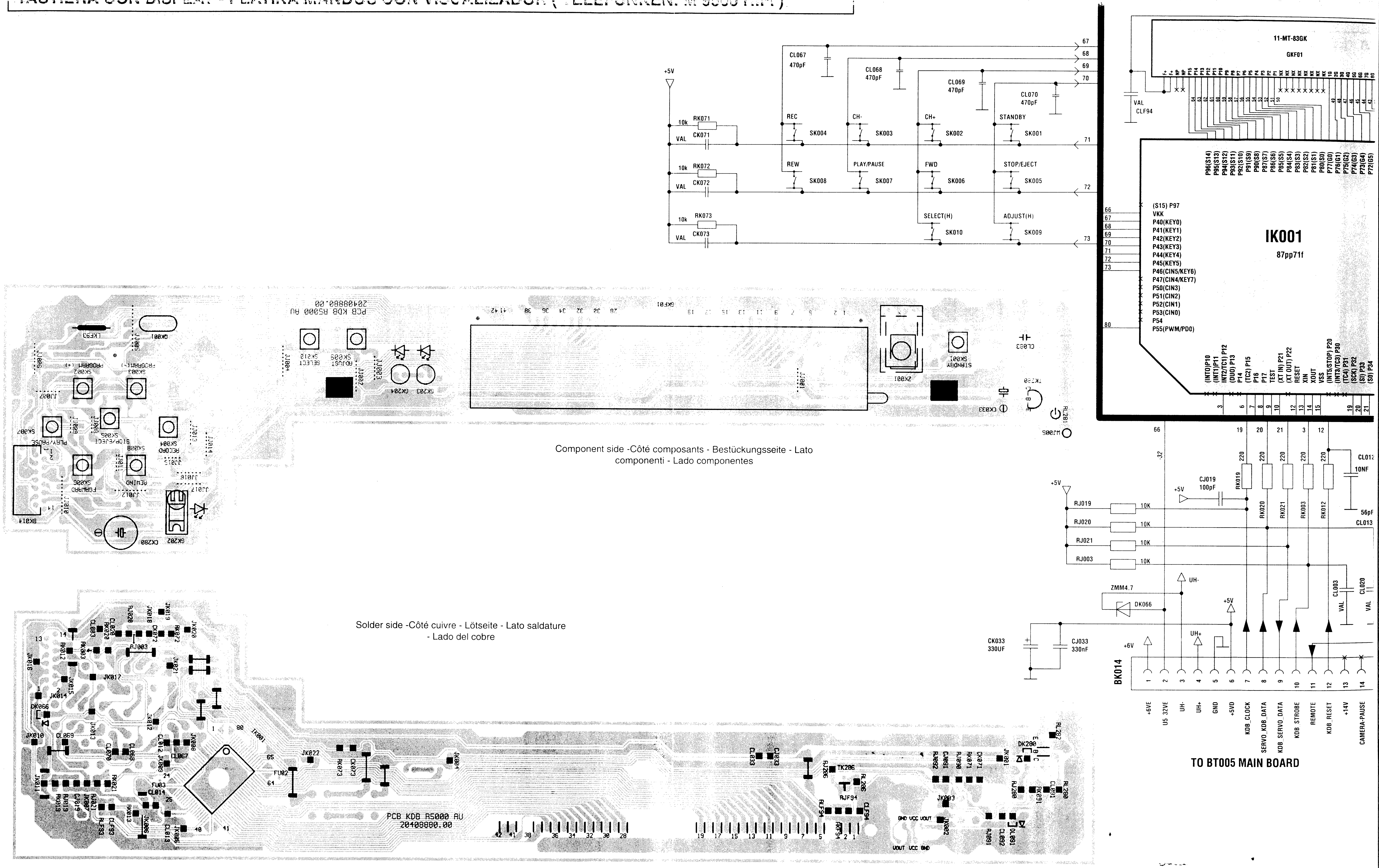

AUDIO
VIDEO
FE-5100/FE-4204
FE4201
IF-4151/4151A
IF4130/4131A
IF4152/IF4160A
IY001
SDA5648
TO ACE HEAD
BS031
TO HI FI BN02 TERMINAL BOARD
TO FE HEAD BS030
TEST PINS
BS001
BW005
TO BN301 TERMINAL BOARD
TO BX101 TERMINAL BOARD
TO BX002 TERMINAL BOARD
TO BF401 FEATURE BOARD
PB
REC

= : FOR CINCH MODELS ONLY
& : FOR MONO/HIFI MODELS W/O DUB ONLY
[: FOR LED MODELS
@ : FOR MONO/HIFI MODELS WITH DUB ONLY
X : FOR MB H71,H72,H73,H66,H60
£ : ONLY FOR SOME MODELS

$: FOR MODELS USING IF4160/4160A
* : FOR GP. DELAY PRECORR.
# : FOR IF4151/4151A /4152 ONLY
+ : FOR NO GP. DELAY PRECORR.
% : FOR MODELS USING IF4130/4130A & 4151/4151A

20 49 48 80 MB RFHIFI (Feat.)

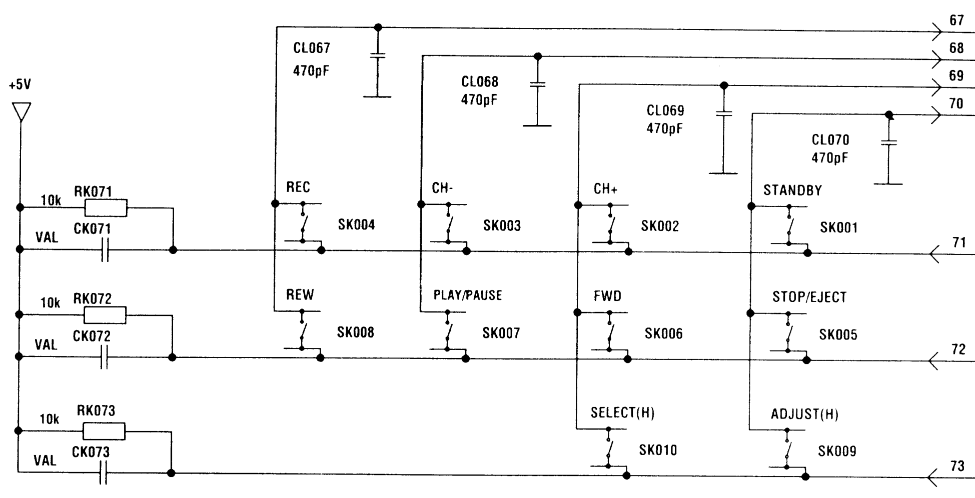
KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (TELEFUNKEN: M 9560 HIFI)

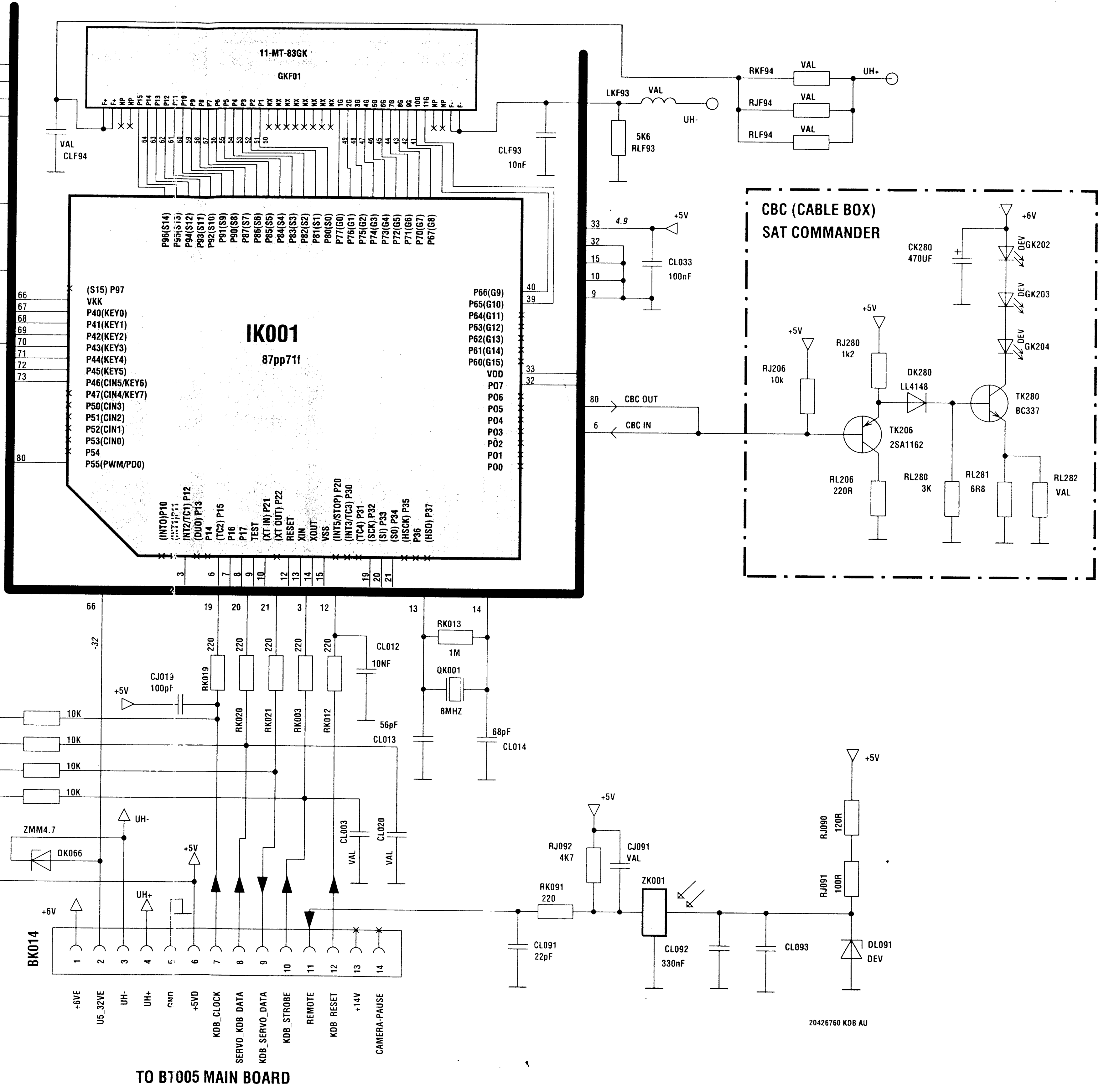

+5V
10k
RK071
CK071
VAL
10k
RK072
CK072
VAL
10k
RK073
CK073
VAL
CL067
470pF
CL068
470pF
CL069
470pF
CL070
470pF
REC
SK004
CH-
SK003
CH+
SK002
STANDBY
SK001
REW
SK008
PLAY/PAUSE
SK007
FWD
SK006
STOP/EJECT
SK005
SELECT(H)
SK010
ADJUST(H)
SK009
67
68
69
70
71
72
73
11-MT-83GK
GKF01
F+
F+
NP
NP
P15
P14
P13
P12
P11
P10
P9
P8
P7
P6
P5
P4
P3
P2
P1
NX
1G
2G
3G
4G
5G
6G
7G
8G
VAL
CLF94
P96(S14)
P95(S13)
P94(S12)
P93(S11)
P92(S10)
P91(S9)
P90(S8)
P87(S7)
P86(S6)
P85(S5)
P84(S4)
P83(S3)
P82(S2)
P81(S1)
P80(S0)
P77(G0)
P76(G1)
P75(G2)
P74(G3)
P73(G4)
P72(G5)
(S15) P97
VKK
P40(KEY0)
P41(KEY1)
P42(KEY2)
P43(KEY3)
P44(KEY4)
P45(KEY5)
P46(CIN5/KEY6)
P47(CIN4/KEY7)
P50(CIN3)
P51(CIN2)
P52(CIN1)
P53(CIN0)
P54
P55(PWM/PD0)
IK001
87pp71f
66
80
(INT0)P10
(INT1)P11
INT2/TC1) P12
(DUO) P13
P14
(TC2) P15
P16
P17
TEST
(XT IN) P21
(XT OUT) P22
RESET
XIN
XOUT
VSS
(INT5/STOP) P20
(INT3/TC3) P30
(TC4) P31
(SCK) P32
(SI) P33
(S0) P34
3
6
7
8
9
10
12
13
14
15
19
20
21
-32
220
RK019
RK020
RK021
RK003
RK012
CL012
10NF
56pF
CL013
CJ019
100pF
+5V
RJ019
RJ020
RJ021
RJ003
10K
UH-
ZMM4.7
DK066
UH+
+6V
CK033
330UF
CJ033
330nF
CL003
VAL
CL020
VAL
BK014
1
2
3
4
5
6
7
8
9
10
11
12
13
14
+6VE
U5 32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
TO BT005 MAIN BOARD
PCB KDB R5000 AU
20408880.00
IK001
JK022
FU02
FU03
CL014
CL069
CL070
CL068
CL067
CL012
JK009
JK010
JK011
JK012
JK013
JK014
JK015
JK017
JK018
JK019
JK020
JK021
RJ020
RJ003
RK012
RK003
RK021
RK019
RJ019
CJ019
DK066
CL083
RK020
CK072
RK072
CK073
RK073
JK004
CL033
CJ033
TK206
RJ206
RL206
RJF94
RKF94
CLF94
JK003
JK002
JK001
RJ092
CJ091
RJ090
RK071
CK071
DK280
RL282
RJ280
RK091
CL091
RL280
RJ091
CL092
GND VCC VOUT
VOUT VCC GND
13
14
80
65
64
61
24
25
40
41
42
41
38
36
34
32
30
28
19
17
15
13
11
9
7
5
3
2
1
CL033
CK033
RL281
MJ005

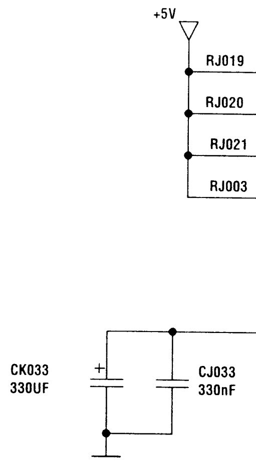
Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

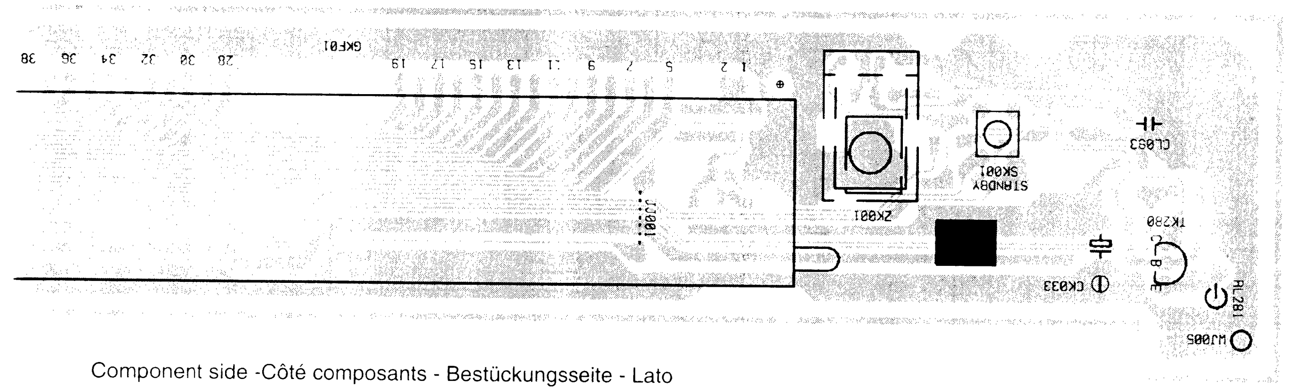
Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


+5V
RK071 10k
CK071 VAL
RK072 10k
CK072 VAL
RK073 10k
CK073 VAL
CL067 470pF
CL068 470pF
CL069 470pF
CL070 470pF
REC SK004
CH- SK003
CH+ SK002
STANDBY SK001
REW SK008
PLAY/PAUSE SK007
FWD SK006
STOP/EJECT SK005
SELECT(H) SK010
ADJUST(H) SK009
67
68
69
70
71
72
73

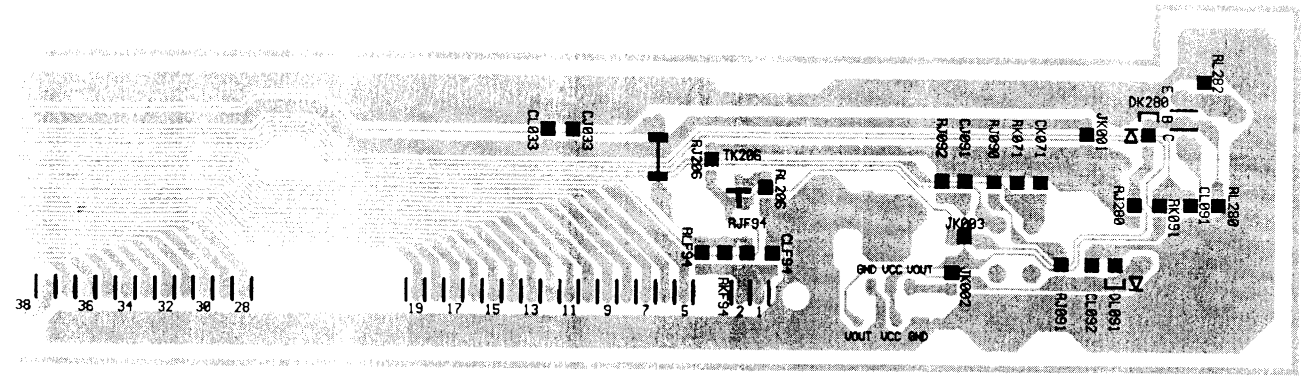

11-MT-83GK
GKF01
VAL
CLF94
CLF93 10nF
LKF93 VAL
UH-
5K6 RLF93
RKF94 VAL
RJF94 VAL
RLF94 VAL
UH+
IK001
87pp71f
(S15) P97
VKK
P40(KEY0)
P41(KEY1)
P42(KEY2)
P43(KEY3)
P44(KEY4)
P45(KEY5)
P46(CIN5/KEY6)
P47(CIN4/KEY7)
P50(CIN3)
P51(CIN2)
P52(CIN1)
P53(CIN0)
P54
P55(PWM/PDO)
P96(S14) P95(S13) P94(S12) P93(S11) P92(S10) P91(S9) P90(S8) P87(S7) P86(S6) P85(S5) P84(S4) P83(S3) P82(S2) P81(S1) P80(S0) P77(G0) P76(G1) P75(G2) P74(G3) P73(G4) P72(G5) P71(G6) P70(G7) P67(G8)
P66(G9)
P65(G10)
P64(G11)
P63(G12)
P62(G13)
P61(G14)
P60(G15)
VDD
P07
P06
P05
P04
P03
P02
P01
P00
(INT0)P10 INT1/P11 INT2/TC1) P12 (DVO) P13 P14 (TC2) P15 P16 P17 TEST (XT IN) P21 (XT OUT) P22 RESET XIN XOUT VSS (INT5/STOP) P20 (INT3/TC3) P30 (TC4) P31 (SCK) P32 (SI) P33 (SO) P34 (HSCK) P35 P36 (HSO) P37
+5V
4.9
CL033 100nF
80 CBC OUT
6 CBC IN
CBC (CABLE BOX)
SAT COMMANDER
+6V
CK280 470UF
GK202 DEV
GK203 DEV
GK204 DEV
RJ206 10k
RJ280 1k2
DK280 LL4148
TK280 BC337
TK206 2SA1162
RL206 220R
RL280 3K
RL281 6R8
RL282 VAL
RK013 1M
QK001 8MHZ
68pF CL014
56pF CL013
CL012 10NF
RK019 220
RK020 220
RK021 220
RK003 220
RK012 220
CJ019 100pF
CL003 VAL
CL020 VAL
+5V
RJ092 4K7
CJ091 VAL
RK091 220
ZK001
CL091 22pF
CL092 330nF
CL093
RJ090 120R
RJ091 100R
DL091 DEV
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
TO BT005 MAIN BOARD
20426760 KDB AU


+5V
RJ019 10K
RJ020 10K
RJ021 10K
RJ003 10K
ZMM4.7
CK033 330UF
CJ033 330nF
+6V


GKF01
SK001 STANDBY
ZK001
CL093
TK280
RL281
CK033
RJ085

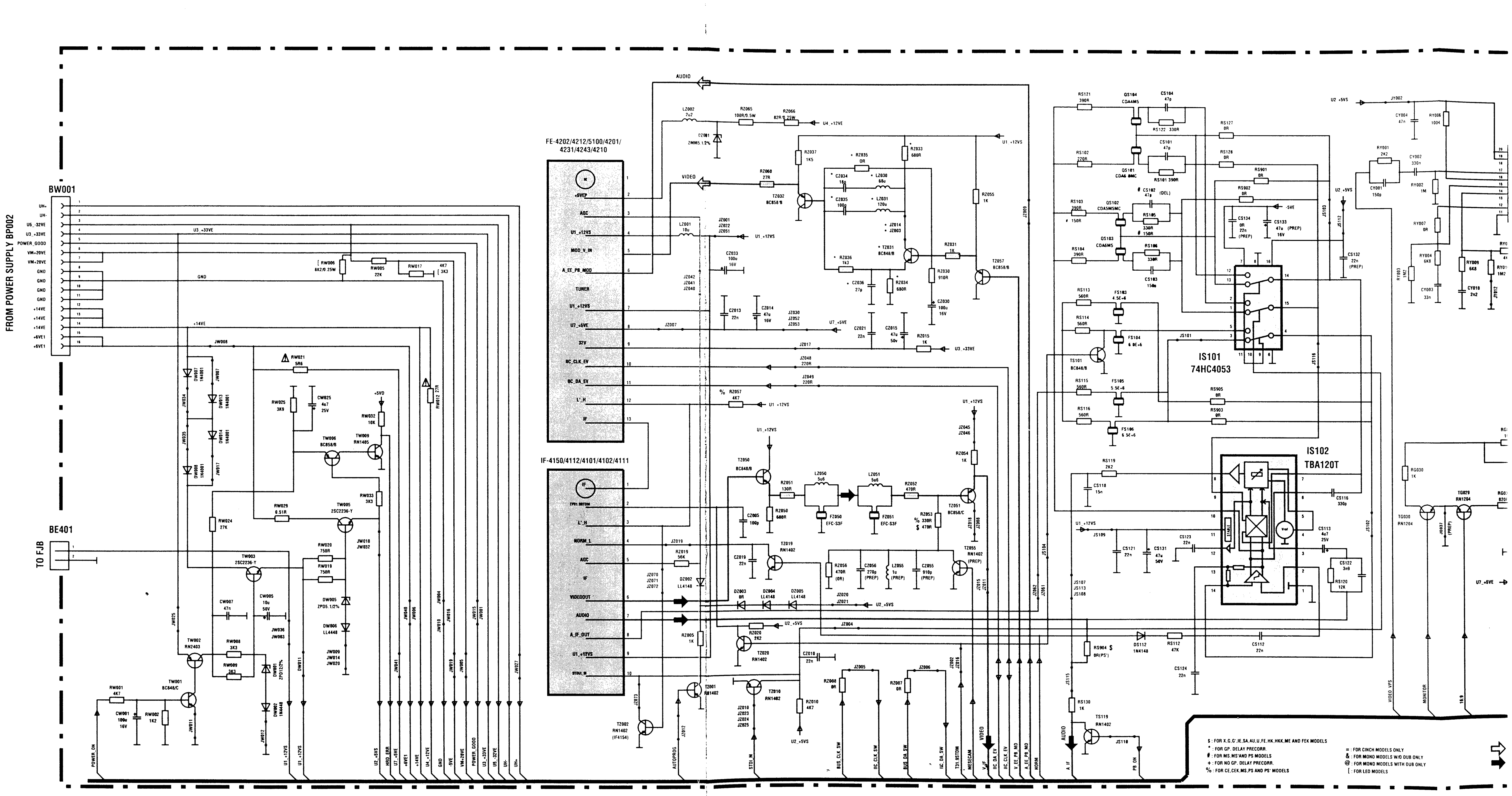
Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

saldature


CL033
CK033
RJ206
TK206
RL206
RJF94
RLF94
RKF94
CLF94
DK280
RJ280
JK003
GND VCC VOUT
VOUT VCC GND
38 36 34 32 30 28
19 17 15 13 11 9 7 5 2 1

POWER SUPPLY INTERFACE / AUDIO SIGNAL PROCESSING - INTERFACE ALIMENTATION / CIRCUITS AUDIO - NETZTEIL INTERFACE / AUDIO SIGNALVERARBEITUNG ALIMENTAZIONE / ELABORAZIONE AUDIO - INTERFAZ ALIMENTACIÓN / TRATAMIENTO AUDIO

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA **(V3450SV - VR6081)**

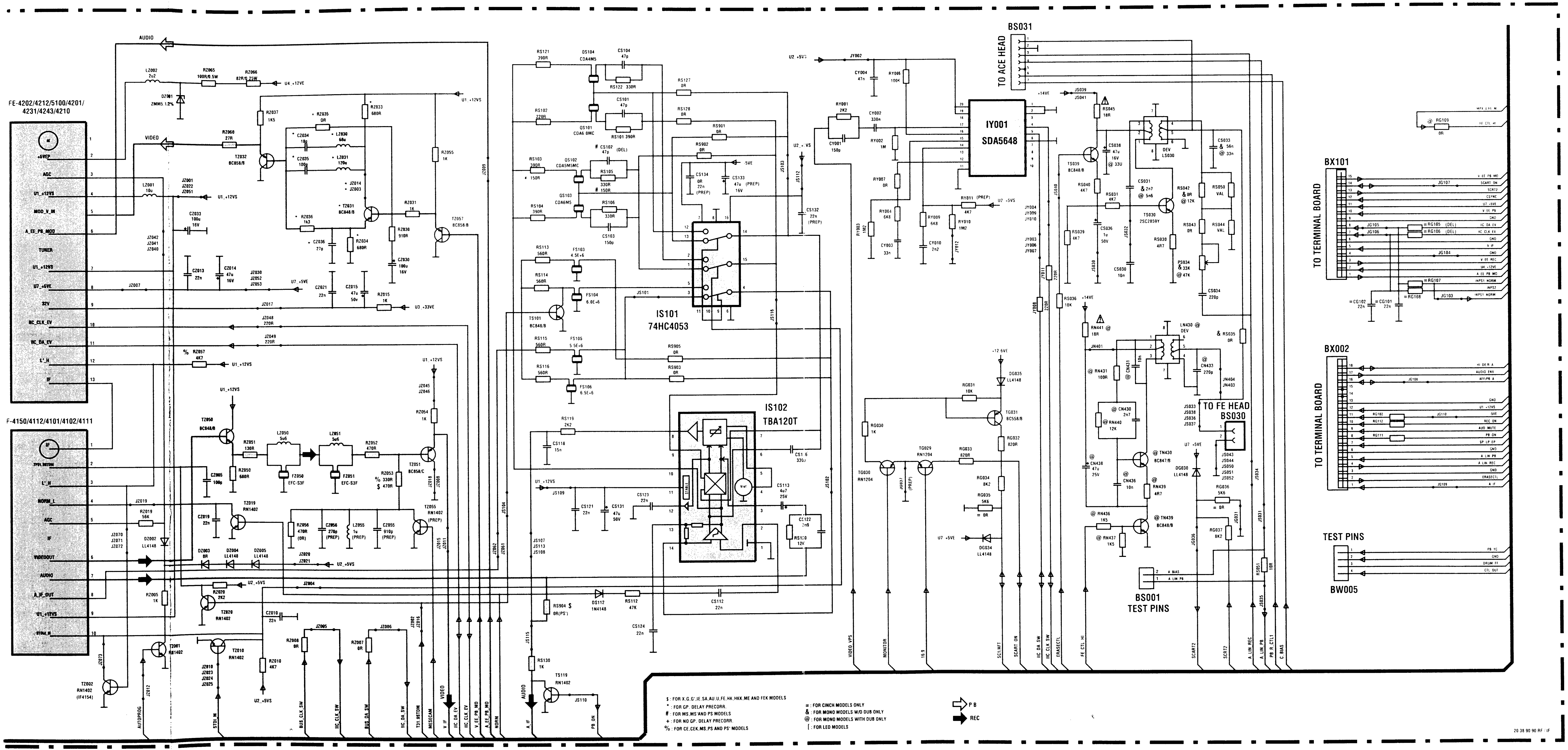

FROM POWER SUPPLY BP002
BW001
UH+
UH-
U5_32VE
U3_+33VE
POWER_GOOD
VM+20VE
VM+20VE
GND
+14VE
+6VE1
BE401
TO FJB
FE-4202/4212/5100/4201/4231/4243/4210
IF-4150/4112/4101/4102/4111
AUDIO
VIDEO
IS101
74HC4053
IS102
TBA120T
VIDEO VPS
MONITOR
16:9

$: FOR X,G,G',IE,SA,AU,U,FE,HK,HKK,ME AND FEK MODELS
* : FOR GP. DELAY PRECORR.
# : FOR MS,MS'AND PS MODELS
+ : FOR NO GP. DELAY PRECORR.
% : FOR CE,CEK,MS,PS AND PS' MODELS

= : FOR CINCH MODELS ONLY
& : FOR MONO MODELS W/O DUB ONLY
@ : FOR MONO MODELS WITH DUB ONLY
[: FOR LED MODELS

- INTERFACE ALIMENTATION / CIRCUITS AUDIO - NETZEIL INTERFACE / AUDIO SIGNALVERARBEITUNG - INTERFACCIA ENTACIÓN / TRATAMIENTO AUDIO

A - ESQUEMA **(V3450SV - VR6081)**

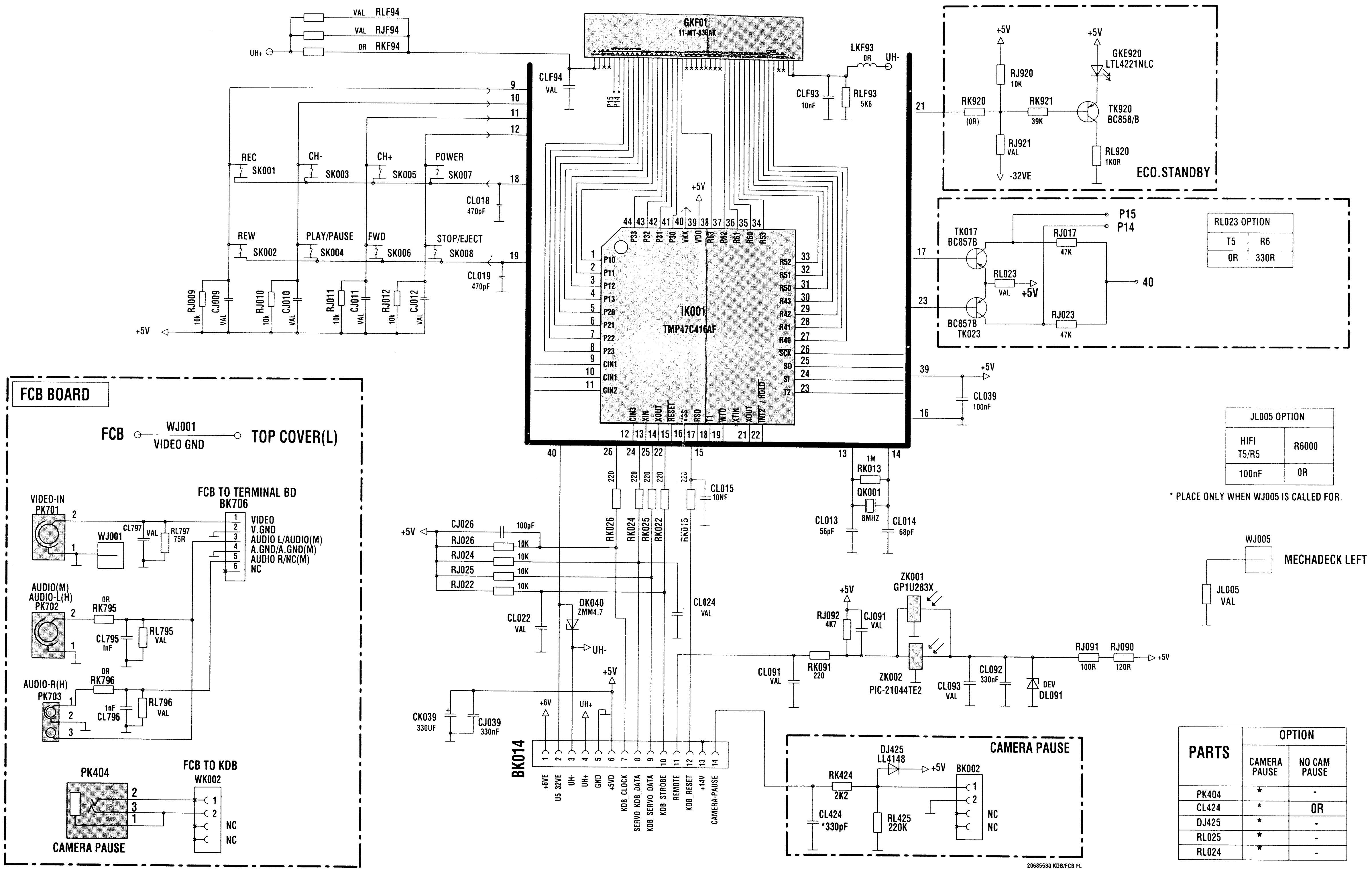

FE-4202/4212/5100/4201/4231/4243/4210
TUNER
+5VEP
AGC
U1_+12VS
MOD_V_IN
A_EE_PB_MOD
U7_+5VE
32V
IIC_CLK_EV
IIC_DA_EV
L'_H
IF
F-4150/4112/4101/4102/4111
NORM_L
VIDEOOUT
AUDIO
A_IF_OUT
AUDIO
VIDEO
TZ032 BC858/B
TZ031 BC848/B
TZ057 BC858/B
TZ050 BC848/B
TZ051 BC858/C
TZ019 RN1402
TZ055 RN1402
TZ020 RN1402
TZ010 RN1402
TZ001 RN1402
TZ002 RN1402
FZ050 EFC-S3F
FZ051 EFC-S3F
AUTOPROG
STD_M
BUS_CLK_SW
IIC_CLK_SW
BUS_DA_SW
IIC_DA_SW
T31 8STDM
MESECAM
V IF
IIC DA EV
IIC CLK EV
V_EE_PB_MD
V_EE_PB_MD
NORM
A_IF
PB ON
IS101
74HC4053
IS102
TBA120T
TS101 BC848/B
TS119 RN1402
DS112 1N4148
BS031
TO ACE HEAD
IY001
SDA5648
TS039 BC848/B
TS030 2SC2859Y
LS030
TO FE HEAD
BS030
TN430 BC847/B
TN439 BC848/B
TG031 BC558/B
TG030 RN1204
TG029 RN1204
DG035 LL4148
DG034 LL4148
BS001
TEST PINS
VIDEO_VPS
MONITOR
16:9
SC1/AFT
SCART ON
IIC DA SW
IIC CLK SW
ERASECTL
FE CTL HI
SCART2
SCRT2
A_LIN_REC
A_LIN_PB
PB_R_CTL1
C_BIAS
BX101
TO TERMINAL BOARD
V EE PB MD
SCART ON
SCRT2
CSYNC
U7 +5VE
V EE PB
GND
IIC DA EV
IIC CLK EV
V IF
V EE REC
U4 +12VE
A EE PB MD
INPS1 NORM
INPS2
BX002
TO TERMINAL BOARD
HI DE/R A
AUDIO ENV
AFF/PB A
U1 +12VS
+5VE
REC ON
AUD MUTE
PB ON
SP LP EP
A LIN PB
A LIN REC
ERASECTL
A IF
TEST PINS
PB YC
DRUM FF
CTL OUT
BW005
P B
REC
20 38 90 90 RF IF

$: FOR X,G,G',IE,SA,AU,U,FE,HK,HKK,ME AND FEK MODELS
* : FOR GP. DELAY PRECORR.
# : FOR MS,MS'AND PS MODELS
+ : FOR NO GP. DELAY PRECORR.
% : FOR CE,CEK,MS,PS AND PS' MODELS

= : FOR CINCH MODELS ONLY
& : FOR MONO MODELS W/O DUB ONLY
@ : FOR MONO MODELS WITH DUB ONLY
[: FOR LED MODELS

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (THOMSON: VPH 6750)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


GKF01
11-MT-83GAK
VAL RLF94
VAL RJF94
0R RKF94
UH+
CLF94 VAL
LKF93 0R UH-
CLF93 10nF
RLF93 5K6
P15 P14
REC SK001
CH- SK003
CH+ SK005
POWER SK007
REW SK002
PLAY/PAUSE SK004
FWD SK006
STOP/EJECT SK008
CL018 470pF
CL019 470pF
RJ009 10k CJ009 VAL
RJ010 10k CJ010 VAL
RJ011 10k CJ011 VAL
RJ012 10k CJ012 VAL
+5V
IK001
TMP47C416AF
P10 P11 P12 P13 P20 P21 P22 P23 CIN1 CIN1 CIN2
P33 P32 P31 P30 VKK VDD R63 R62 R61 R60 R53
R52 R51 R50 R43 R42 R41 R40 SCK SO SI T2
CIN3 XIN XOUT RESET VSS RSO T1 WTO XTIN XOUT INT2 / HOLD
+5V RJ920 10K
+5V GKE920 LTL4221NLC
RK920 (0R)
RK921 39K
TK920 BC858/B
RJ921 VAL
RL920 1K0R
-32VE
ECO.STANDBY
P15 P14
TK017 BC857B
RJ017 47K
RL023 VAL +5V
BC857B TK023
RJ023 47K
40
39 +5V
CL039 100nF
16
FCB BOARD
FCB WJ001 VIDEO GND TOP COVER(L)
VIDEO-IN PK701
CL797 VAL
RL797 75R
WJ001
FCB TO TERMINAL BD BK706
VIDEO
V.GND
AUDIO L/AUDIO(M)
A.GND/A.GND(M)
AUDIO R/NC(M)
NC
AUDIO(M) AUDIO-L(H) PK702
0R RK795
CL795 1nF
RL795 VAL
AUDIO-R(H) PK703
0R RK796
1nF CL796
RL796 VAL
PK404
CAMERA PAUSE
FCB TO KDB WK002
NC
NC
+5V
CJ026 100pF
RJ026 10K
RJ024 10K
RJ025 10K
RJ022 10K
RK026 RK024 RK025 RK022 RK015
220
CL015 10NF
1M RK013
QK001 8MHZ
CL013 56pF
CL014 68pF
CL022 VAL
DK040 ZMM4.7
UH-
CL024 VAL
+5V
CK039 330UF
CJ039 330nF
+6V UH+
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
+5V RJ092 4K7
CJ091 VAL
ZK001 GP1U283X
CL091 VAL
RK091 220
ZK002 PIC-21044TE2
CL093 VAL
CL092 330nF
DEV DL091
RJ091 100R
RJ090 120R
+5V
CAMERA PAUSE
DJ425 LL4148
+5V
RK424 2K2
BK002
CL424 *330pF
RL425 220K
NC
NC
WJ005
MECHADECK LEFT
JL005 VAL
20685530 KDB/FCB FL

RL023 OPTION	
T5	R6
0R	330R

JL005 OPTION	
HIFI T5/R5	R6000
100nF	0R

* PLACE ONLY WHEN WJ005 IS CALLED FOR.

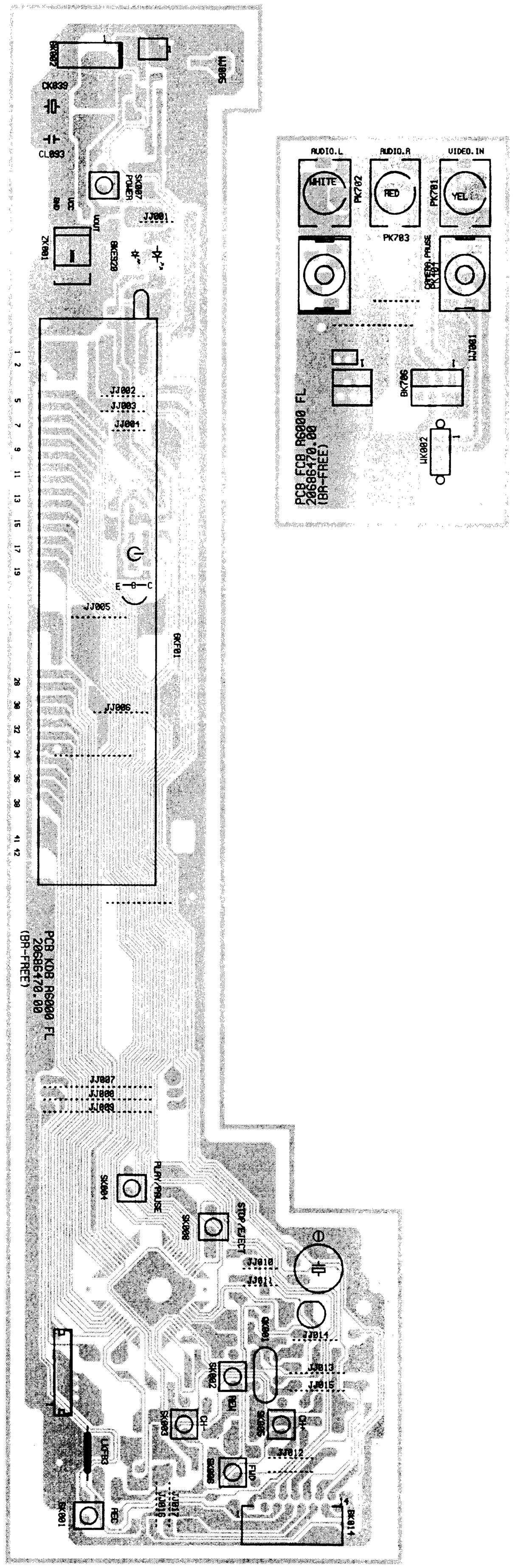
PARTS	OPTION	
	CAMERA PAUSE	NO CAM PAUSE
PK404	*	-
CL424	*	0R
DJ425	*	-
RL025	*	-
RL024	*	-

-: DELETE *: INSERT

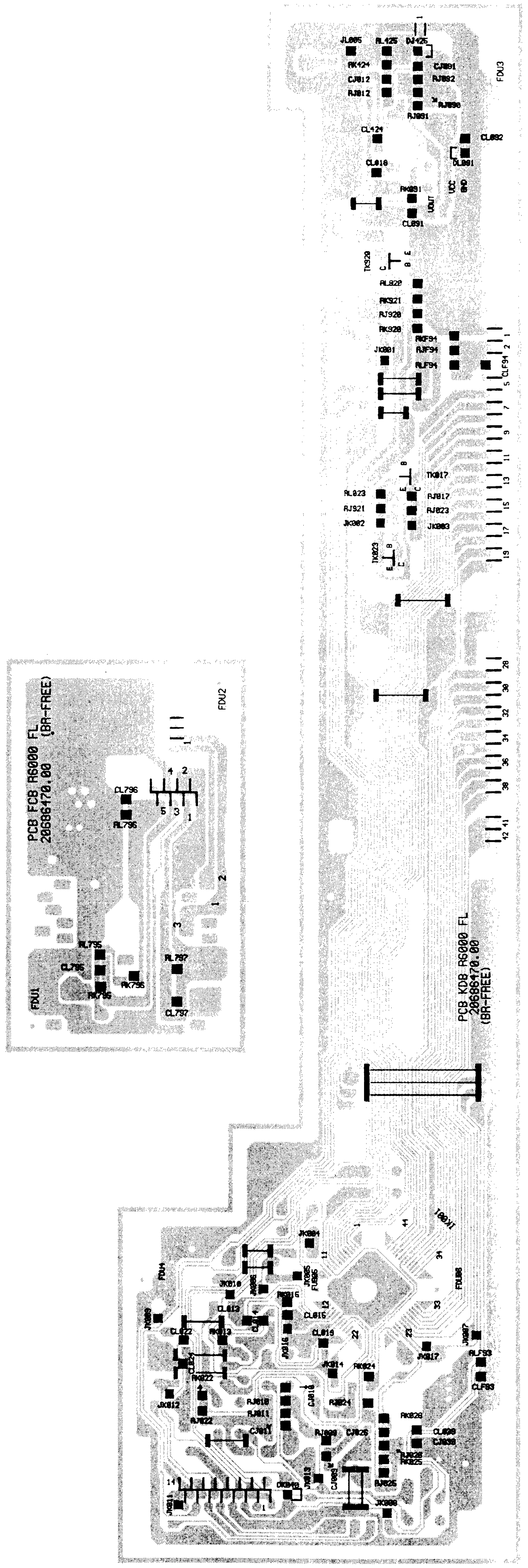
TOCOM	DESCRIPTION	CAM.PAUSE	FAV	S/W	ECO	SK001-SK008	MODELS
20685500	ASY KDB/FCB R6 FL1/FL1	YES	2	R6-R1T	YES	HIFI/MONO	VP2750,VP4750
20729530	ASY KDB/FCB R6 FL2/FL2	YES	3	R6-R1T	NO	HIFI/MONO	VPH6750
20723090	EQU KDB R6 FL3	NO	NO	R6-R1T	YES	HIFI/MONO	VP2701,VP4701,V2700,V4700

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR **(THOMSON : VPH 6750)**

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

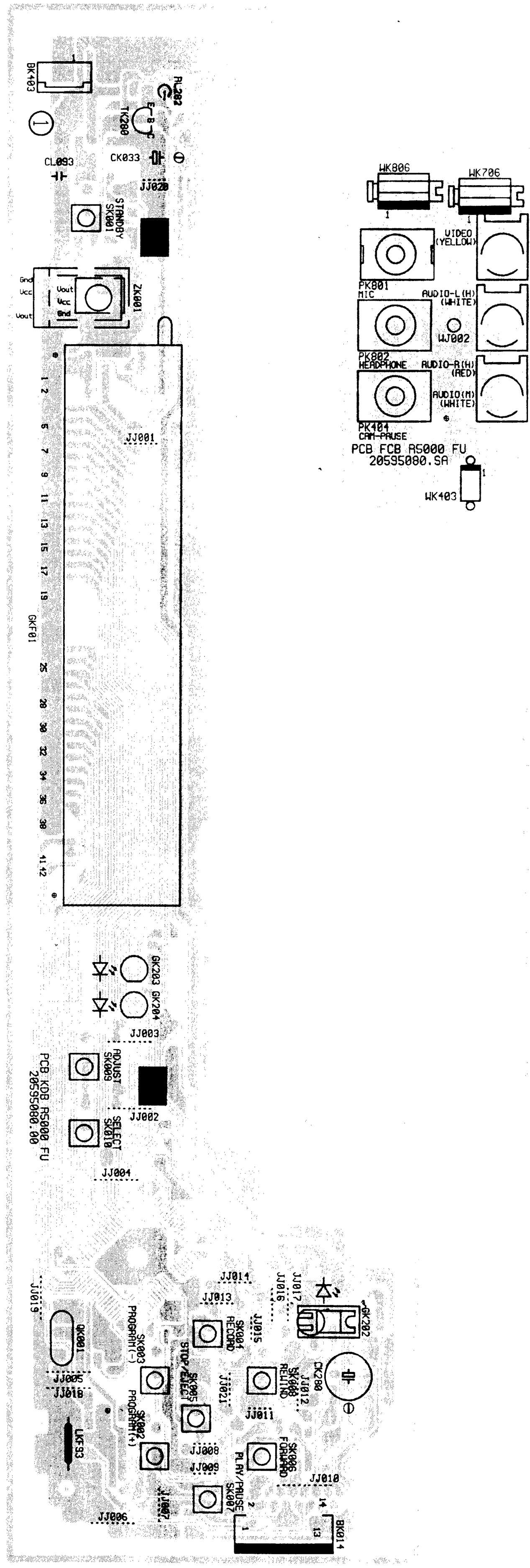

AUDIO.L
AUDIO.R
VIDEO.IN
WHITE
RED
YEL
PCB FCB A6000 FL 20686470.00 (BA-FREE)
PCB KDB A6000 FL 20686470.00 (BA-FREE)

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre

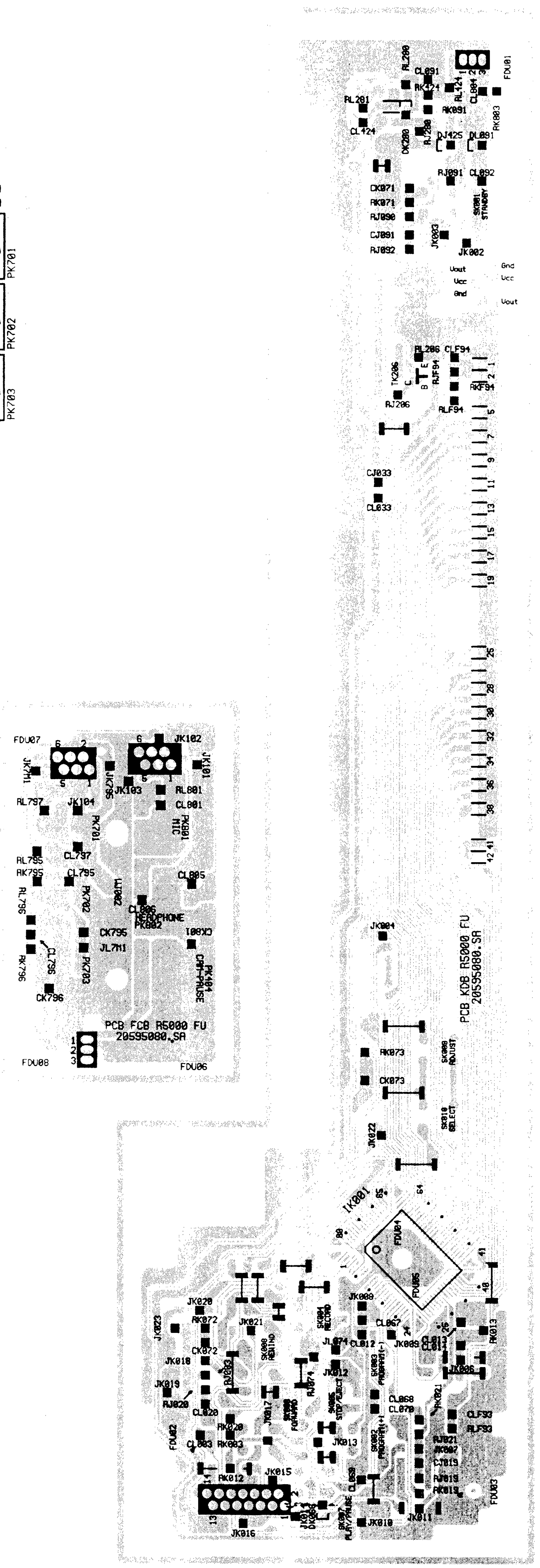

PCB FCB A6000 FL 20686470.00 (BA-FREE)
PCB KDB A6000 FL 20686470.00 (BA-FREE)

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR **(TELEFUNKEN : M 9680 HIFI)**

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado

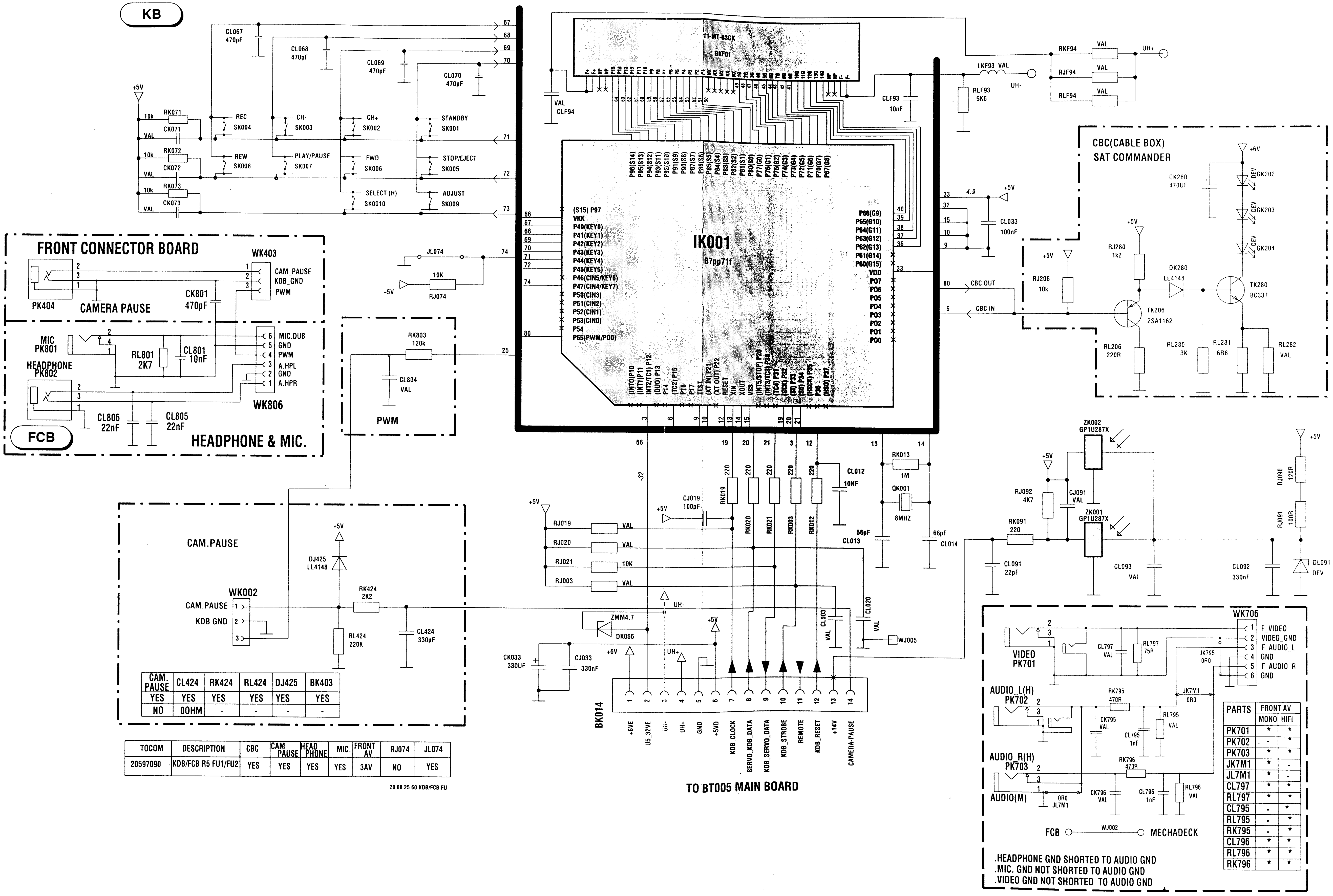

STANDBY
VIDEO (YELLOW)
AUDIO-L(H) (WHITE)
AUDIO-R(H) (RED)
AUDIO(M) (WHITE)
MIC
HEADPHONE
CAM-PAUSE
PCB FCB A5000 FU 20595080.SA
ADJUST
SELECT
PCB KDB A5000 FU 20595080.00
PROGRAM(-)
RECORD
STOP/EJECT
REWIND
PROGRAM(+)
PLAY/PAUSE
FORWARD

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


PCB FCB A5000 FU 20595080.SA
PCB KDB A5000 FU 20595080.SA

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (TELEFUNKEN: M 9680 HIFI)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


KB
CL067 470pF
CL068 470pF
CL069 470pF
CL070 470pF
+5V
RK071 10k
CK071 VAL
RK072 10k
CK072 VAL
RK073 10k
CK073 VAL
REC SK004
CH- SK003
CH+ SK002
STANDBY SK001
REW SK008
PLAY/PAUSE SK007
FWD SK006
STOP/EJECT SK005
SELECT (H) SK0010
ADJUST SK009
67
68
69
70
71
72
73
74
80
25
FRONT CONNECTOR BOARD
WK403
CAM_PAUSE
KDB_GND
PWM
PK404
CAMERA PAUSE
CK801 470pF
MIC PK801
HEADPHONE PK802
RL801 2K7
CL801 10nF
MIC.DUB
GND
PWM
A.HPL
GND
A.HPR
WK806
CL806 22nF
CL805 22nF
FCB
HEADPHONE & MIC.
JL074
RJ074 10K
+5V
RK803 120k
CL804 VAL
PWM
11-MT-83GK
GKF01
VAL CLF94
IK001
87pp71f
(S15) P97
VKK
P40(KEY0)
P41(KEY1)
P42(KEY2)
P43(KEY3)
P44(KEY4)
P45(KEY5)
P46(CIN5/KEY6)
P47(CIN4/KEY7)
P50(CIN3)
P51(CIN2)
P52(CIN1)
P53(CIN0)
P54
P55(PWM/PDO)
P96(S14)
P95(S13)
P94(S12)
P93(S11)
P92(S10)
P91(S9)
P90(S8)
P87(S7)
P86(S6)
P85(S5)
P84(S4)
P83(S3)
P82(S2)
P81(S1)
P80(S0)
P77(G0)
P76(G1)
P75(G2)
P74(G3)
P73(G4)
P72(G5)
P71(G6)
P70(G7)
P67(G8)
P66(G9)
P65(G10)
P64(G11)
P63(G12)
P62(G13)
P61(G14)
P60(G15)
VDD
P07
P06
P05
P04
P03
P02
P01
P00
(INT0)P10
(INT1)P11
(INT2/TC1) P12
(DVO) P13
P14
(TC2) P15
P16
P17
TEST
(XT IN) P21
(XT OUT) P22
RESET
XIN
XOUT
VSS
(INT5/STOP) P20
(INT3/TC3) P30
(SCK) P32
(SI) P33
(SO) P34
(HSCK) P35
P36
(HSO) P37
RKF94 VAL
RJF94 VAL
RLF94 VAL
UH+
LKF93 VAL
UH-
RLF93 5K6
CLF93 10nF
4.9
+5V
CL033 100nF
CBC OUT
CBC IN
CBC(CABLE BOX) SAT COMMANDER
+6V
CK280 470UF
GK202
GK203
GK204
DEV
RJ280 1k2
DK280 LL4148
RJ206 10k
TK206 2SA1162
TK280 BC337
RL206 220R
RL280 3K
RL281 6R8
RL282 VAL
RK013 1M
QK001 8MHZ
56pF CL013
68pF CL014
CL012 10NF
RK019 220
RK020 220
RK021 220
RK003 220
RK012 220
+5V
RJ019 VAL
RJ020 VAL
RJ021 10K
RJ003 VAL
CJ019 100pF
ZMM4.7 DK066
UH-
UH+
+6V
CK033 330UF
CJ033 330nF
CL003 VAL
CL020 VAL
WJ005
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
TO BT005 MAIN BOARD
ZK002 GP1U287X
ZK001 GP1U287X
RJ092 4K7
CJ091 VAL
RK091 220
CL091 22pF
CL093 VAL
CL092 330nF
RJ090 120R
RJ091 100R
DL091 DEV
CAM.PAUSE
+5V
DJ425 LL4148
RK424 2K2
WK002
CAM.PAUSE
KDB GND
RL424 220K
CL424 330pF
WK706
F_VIDEO
VIDEO_GND
F_AUDIO_L
GND
F_AUDIO_R
GND
VIDEO PK701
CL797 VAL
RL797 75R
JK795 0R0
AUDIO_L(H) PK702
RK795 470R
JK7M1 0R0
CK795 VAL
CL795 1nF
RL795 VAL
AUDIO_R(H) PK703
RK796 470R
AUDIO(M)
0R0 JL7M1
CK796 VAL
CL796 1nF
RL796 VAL
FCB
WJ002
MECHADECK

CAM. PAUSE	CL424	RK424	RL424	DJ425	BK403
YES	YES	YES	YES	YES	YES
NO	0OHM	-	-	-	-

TOCOM	DESCRIPTION	CBC	CAM PAUSE	HEAD PHONE	MIC.	FRONT AV	RJ074	JL074
20597090	KDB/FCB R5 FU1/FU2	YES	YES	YES	YES	3AV	NO	YES

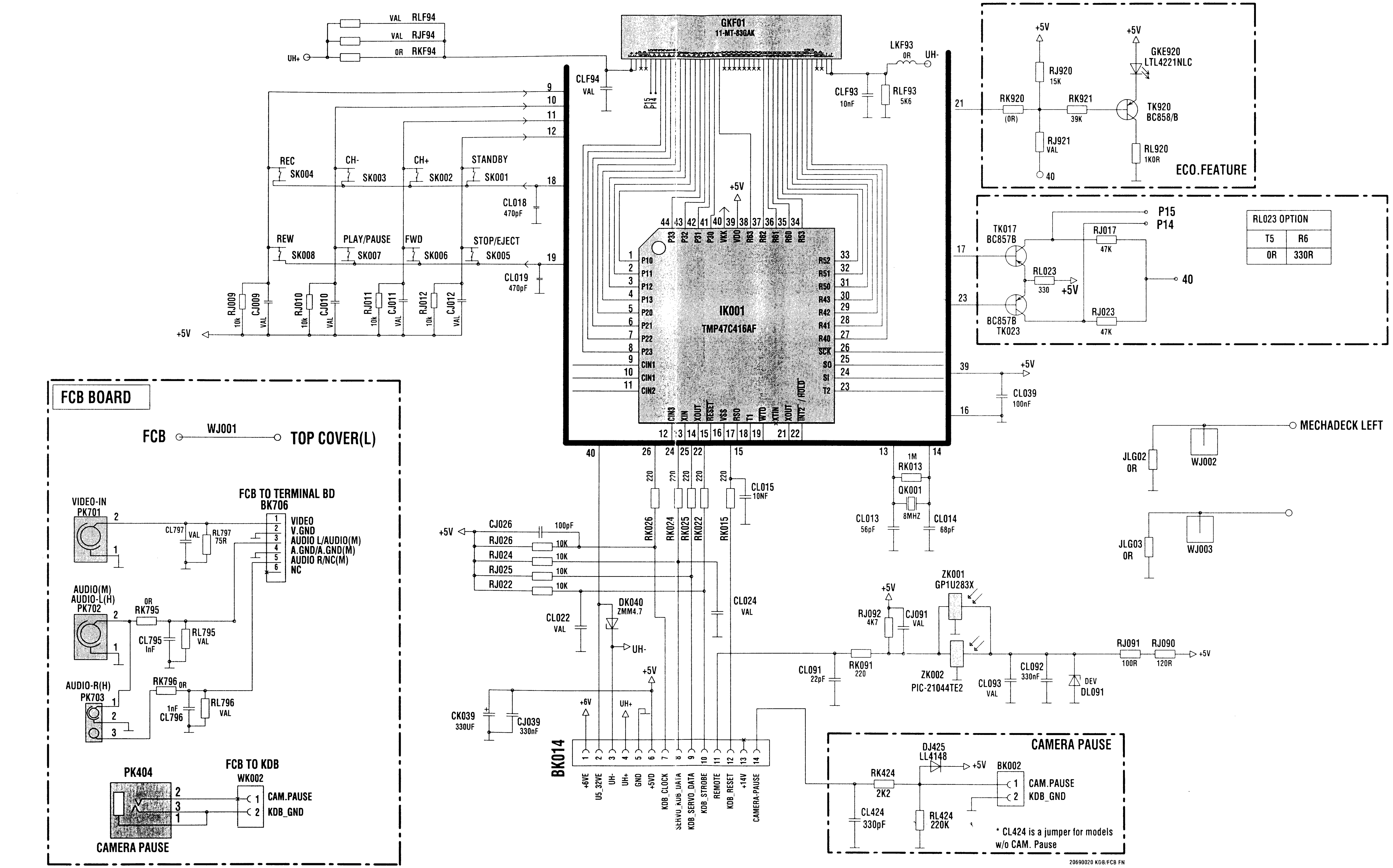
20 60 25 60 KDB/FCB FU

PARTS	FRONT AV	
	MONO	HIFI
PK701	*	*
PK702	-	*
PK703	*	*
JK7M1	*	-
JL7M1	*	-
CL797	*	*
RL797	*	*
CL795	-	*
RL795	-	*
RK795	-	*
CL796	*	*
RL796	*	*
RK796	*	*

.HEADPHONE GND SHORTED TO AUDIO GND
.MIC. GND NOT SHORTED TO AUDIO GND
.VIDEO GND NOT SHORTED TO AUDIO GND

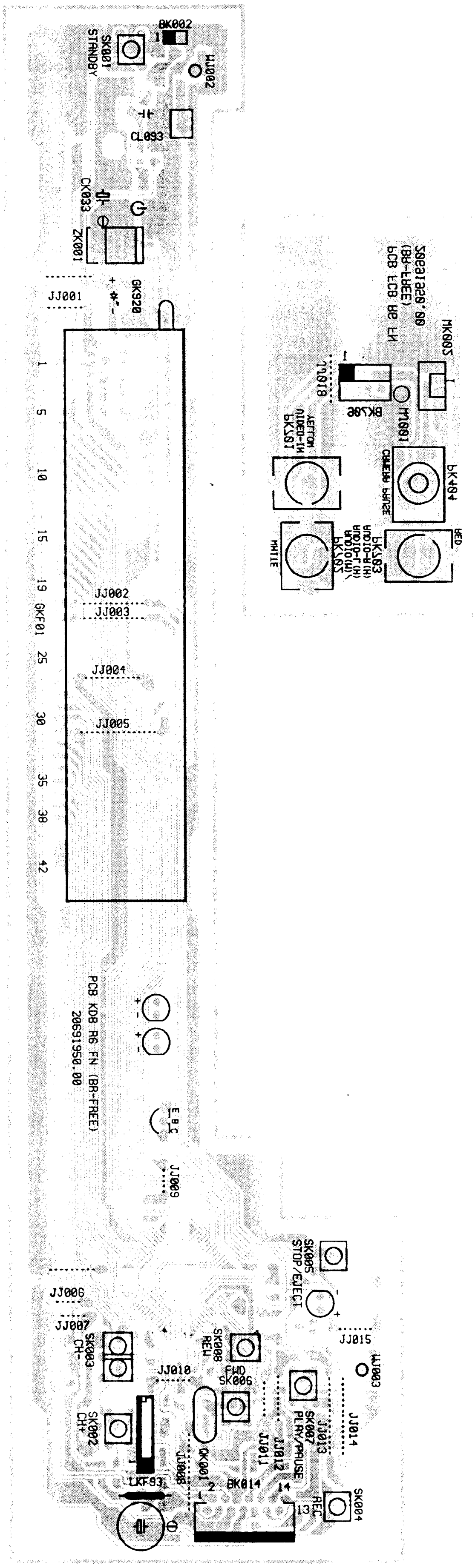
KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (SABA: VR 8087)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

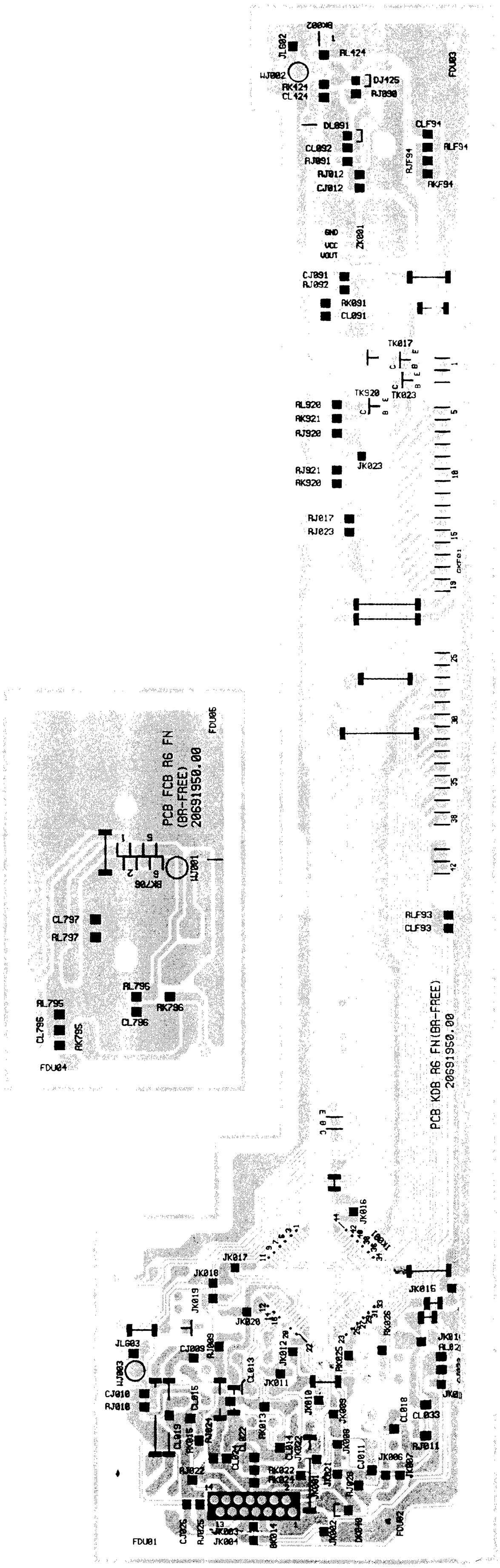

GKF01
11-MT-83GAK
UH+
VAL RLF94
VAL RJF94
0R RKF94
CLF94 VAL
LKF93 0R
UH-
CLF93 10nF
RLF93 5K6
P15
P14
REC SK004
CH- SK003
CH+ SK002
STANDBY SK001
CL018 470pF
REW SK008
PLAY/PAUSE SK007
FWD SK006
STOP/EJECT SK005
CL019 470pF
RJ009 10k
CJ009 VAL
RJ010 10k
CJ010 VAL
RJ011 10k
CJ011 VAL
RJ012 10k
CJ012 VAL
+5V
IK001
TMP47C416AF
P10 P11 P12 P13 P20 P21 P22 P23 CIN1 CIN1 CIN2
R52 R51 R50 R43 R42 R41 R40 SCK SO SI T2
P33 P32 P31 P30 VKK VDD R83 R82 R61 R60 R53
CIN3 XIN XOUT RESET VSS RSO T1 VTD XTIN XOUT INT2 /HOLD
ECO.FEATURE
RJ920 15K
RK920 (0R)
RK921 39K
RJ921 VAL
GKE920 LTL4221NLC
TK920 BC858/B
RL920 1K0R
TK017 BC857B
RJ017 47K
RL023 330
RJ023 47K
BC857B TK023
40
RL023 OPTION
T5 R6
0R 330R
CL039 100nF
MECHADECK LEFT
JLG02 0R
WJ002
JLG03 0R
WJ003
RK013 1M
QK001 8MHZ
CL013 56pF
CL014 68pF
RK026 RK024 RK025 RK022 RK015
220
CL015 10NF
CJ026 100pF
RJ026 10K
RJ024 10K
RJ025 10K
RJ022 10K
CL022 VAL
DK040 ZMM4.7
CL024 VAL
CK039 330UF
CJ039 330nF
+6V
BK014
+6VE U5_32VE UH- UH+ GND +5VD KDB_CLOCK SERVO_KDB_DATA KDB_SERVO_DATA KDB_STROBE REMOTE KDB_RESET +14V CAMERA-PAUSE
ZK001 GP1U283X
RJ092 4K7
CJ091 VAL
RK091 220
CL091 22pF
ZK002 PIC-21044TE2
CL093 VAL
CL092 330nF
DEV DL091
RJ091 100R
RJ090 120R
CAMERA PAUSE
DJ425 LL4148
RK424 2K2
CL424 330pF
RL424 220K
BK002
CAM.PAUSE
KDB_GND
* CL424 is a jumper for models w/o CAM. Pause
20690020 KDB/FCB FN
FCB BOARD
FCB WJ001 TOP COVER(L)
VIDEO-IN PK701
CL797 VAL
RL797 75R
FCB TO TERMINAL BD BK706
VIDEO
V.GND
AUDIO L/AUDIO(M)
A.GND/A.GND(M)
AUDIO R/NC(M)
NC
AUDIO(M) AUDIO-L(H) PK702
RK795 0R
RL795 VAL
CL795 1nF
AUDIO-R(H) PK703
RK796 0R
RL796 VAL
CL796 1nF
PK404
FCB TO KDB WK002
CAM.PAUSE
KDB_GND
CAMERA PAUSE

TOCOM	DESCRIPTION	CAM.PAUSE	FAV	MODEL	ECO	RL023	WJ002	JLG02	TOOL
20699840	EQU KDB R6 FN1	NO	NO	T5000	NO	OR	NO	NO	97-3B
20734180	EQU KDB R6 FN2	NO	NO	R6000	YES	330R	YES	YES	97-3B

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

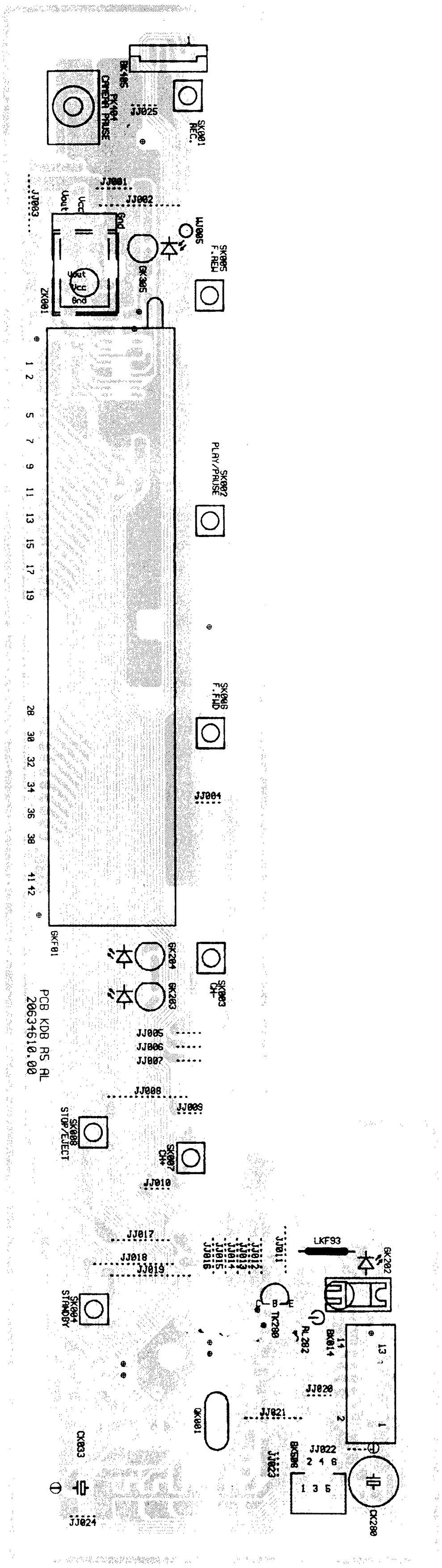

BK002
SK001 STANDBY
WJ002
CL093
CK033
ZK001
GK920
JJ001
1
5
10
15
19
GKF01
25
30
35
38
42
JJ002
JJ003
JJ004
JJ005
PCB KDB R6 FN (BR-FREE)
20691950.00
JJ009
SK005 STOP/EJECT
JJ006
JJ007
SK003 CH-
SK008 REW
JJ015
WJ003
JJ010
FWD SK006
SK002 CH+
SK007 PLAY/PAUSE
JJ013
JJ014
JJ011
JJ012
JJ008
QK001
LKF93
BK014
SK004 REC
MK002
PCB FCB R6 FN
(BR-FREE)
30691950.00
JJ018
BK706
WJ001
PK707 VIDEO-IN YELLOW
PK404 CAMERA PAUSE
PK703 AUDIO-IN (L) AUDIO-IN (R)
WHITE
RED

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre

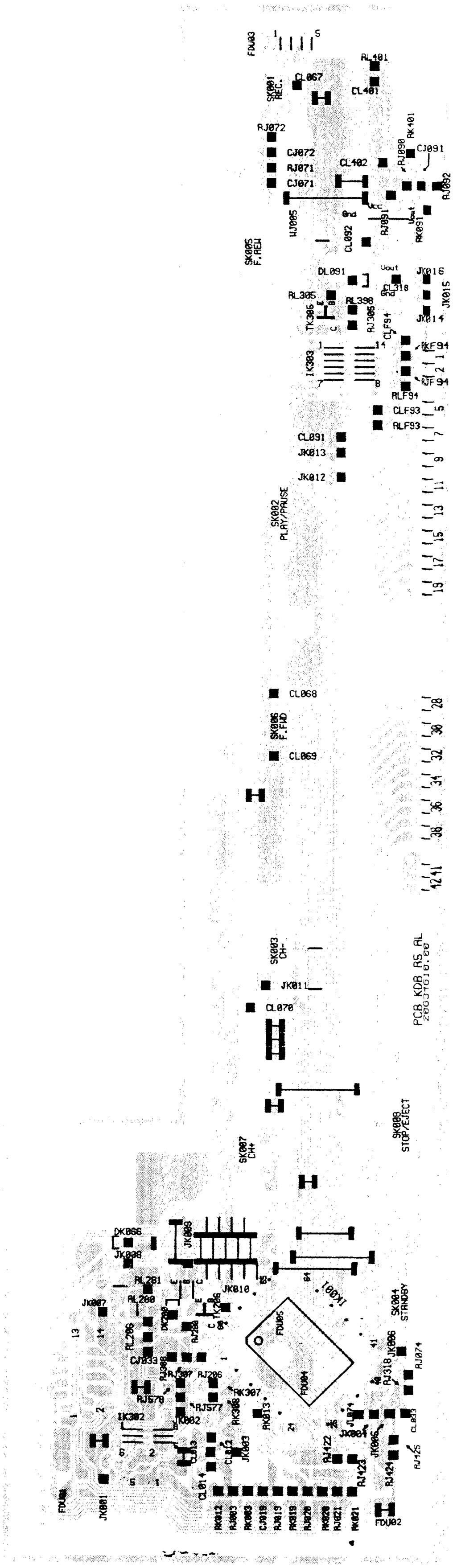

BK002
JL002
RL424
WJ002
RK424
CL424
DJ425
RJ090
FDU03
DL091
CL092
RJ091
RJ012
CJ012
CLF94
RLF94
RJF94
RKF94
GND
VCC
VOUT
ZK001
CJ091
RJ092
RK091
CL091
TK017
TK920
TK023
RL920
RK921
RJ920
RJ921
RK920
JK023
RJ017
RJ023
GKF01
RLF93
CLF93
PCB KDB R6 FN(BR-FREE)
20691950.00
PCB FCB R6 FN
(BR-FREE)
20691950.00
FDU06
BK706
WJ001
CL797
RL797
RL796
RK796
RL795
CL796
CL795
RK795
FDU04
JK016
JK017
JK018
JK019
JK020
JK015
JL003
WJ003
CJ010
RJ010
CJ009
JK012
JK011
RK025
RK026
CL013
CL033
RJ011
JK006
JK008
JK009
CL018
RK022
RK024
BK014
FDU01
FDU02
JK003
JK004
JK002

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (NORMENDE : V 3450 SV)

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

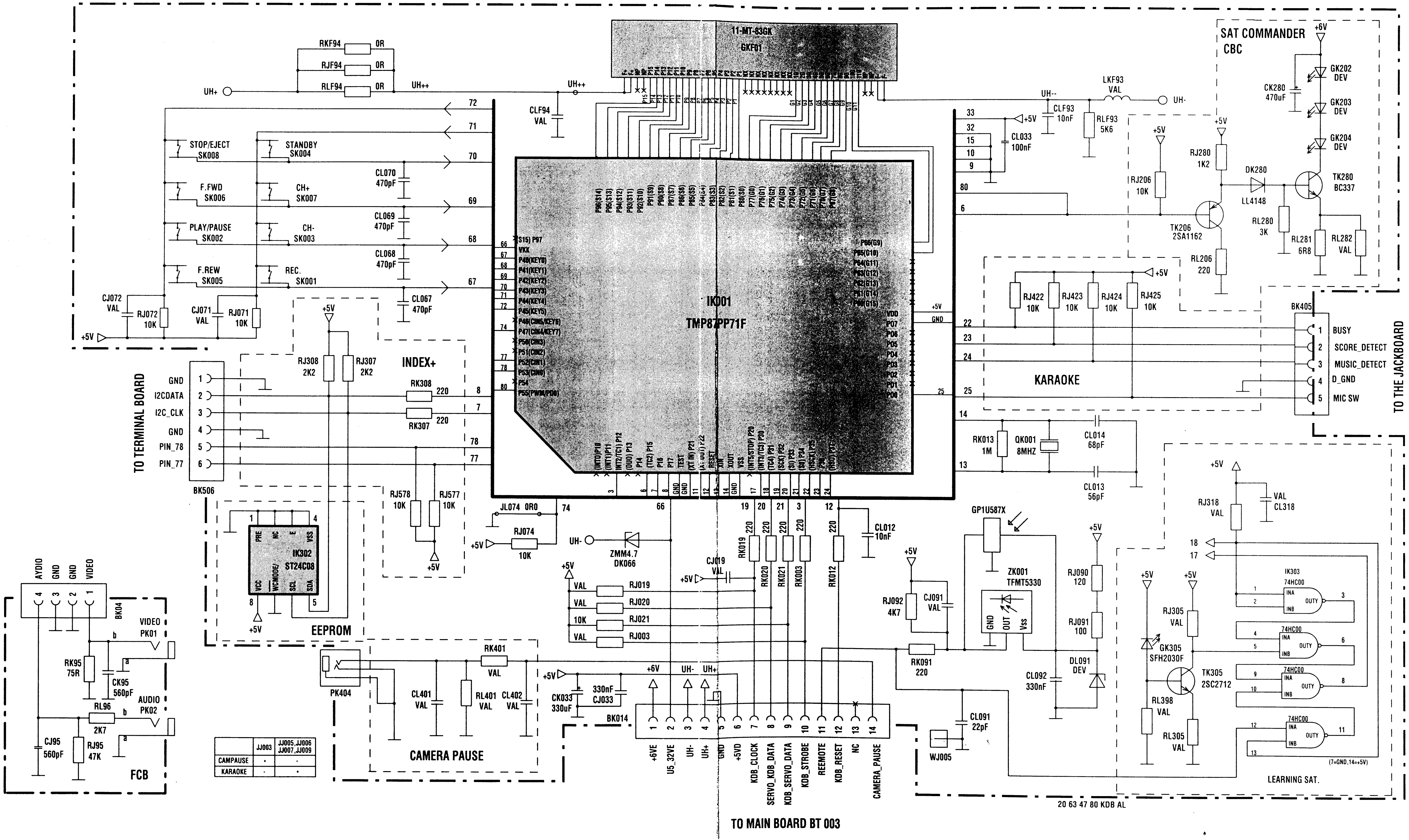

SK001 REC.
BK405
PK404 CAMERA PAUSE
JJ025
JJ001
JJ002
JJ003
Vout
Vcc
Gnd
LL005
SK005 F.REW
GK305
ZK001
SK002 PLAY/PAUSE
SK006 F.FWD
JJ004
GKF01
GK204
GK203
SK003 CH-
PCB KDB RS AL
20634610.00
JJ005
JJ006
JJ007
JJ008
JJ009
SK008 STOP/EJECT
SK007 CH+
JJ010
JJ017
JJ018
JJ019
JJ011
LKF93
GK202
SK004 STANDBY
TK200
BK014
RL202
JJ020
JJ021
JJ022
JJ023
QK001
CK003
CK200
JJ024

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


FDU03
RL401
CL067
CL401
SK001 REC.
RJ072
RK401
CJ072
RJ071
CJ071
CL402
CJ091
RJ092
LL005
SK005 F.REW
CL092
RK091
DL091
JK016
JK015
JK014
RL305
RL390
TK306
RJ306
CLF94
IK303
RKF94
RJF94
RLF94
CLF93
RLF93
CL091
JK013
JK012
SK002 PLAY/PAUSE
CL068
SK006 F.FWD
CL069
SK003 CH-
JK011
CL070
PCB KDB RS AL
20634610.00
SK008 STOP/EJECT
SK007 CH+
DK006
JK008
JK009
RL201
RL200
JK007
JK010
SK004 STANDBY
FDU05
FDU04
IK302
FDU02
FDU01
JK001

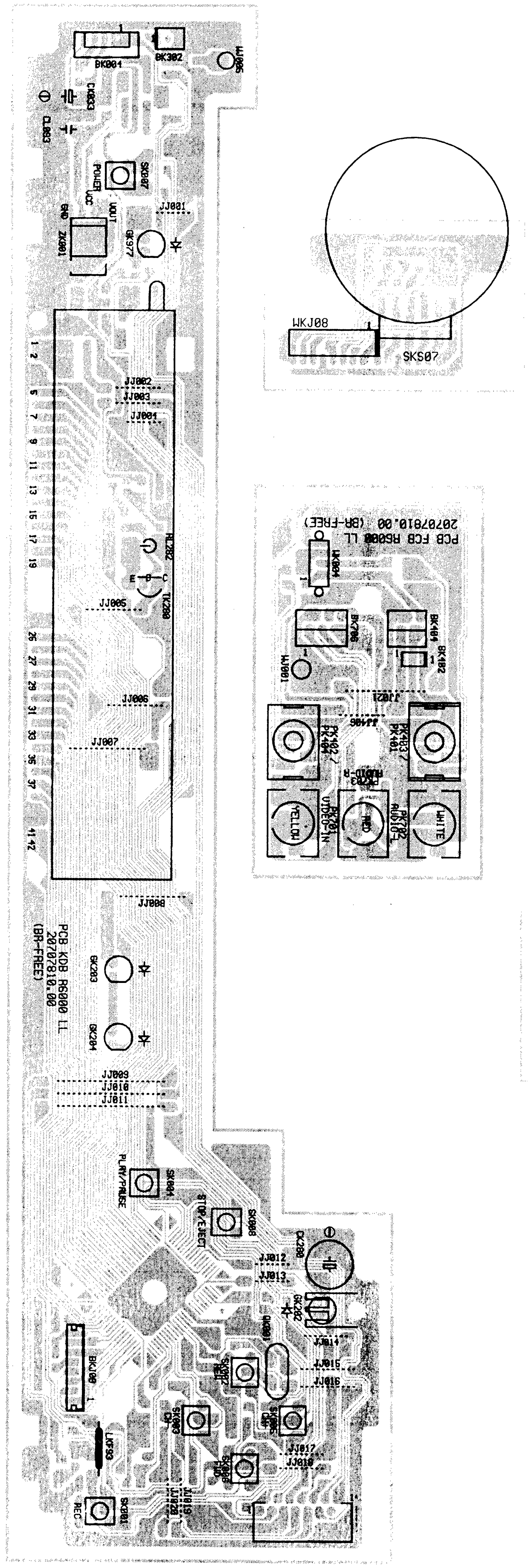
KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (NORMENDE: V 3450 SV)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

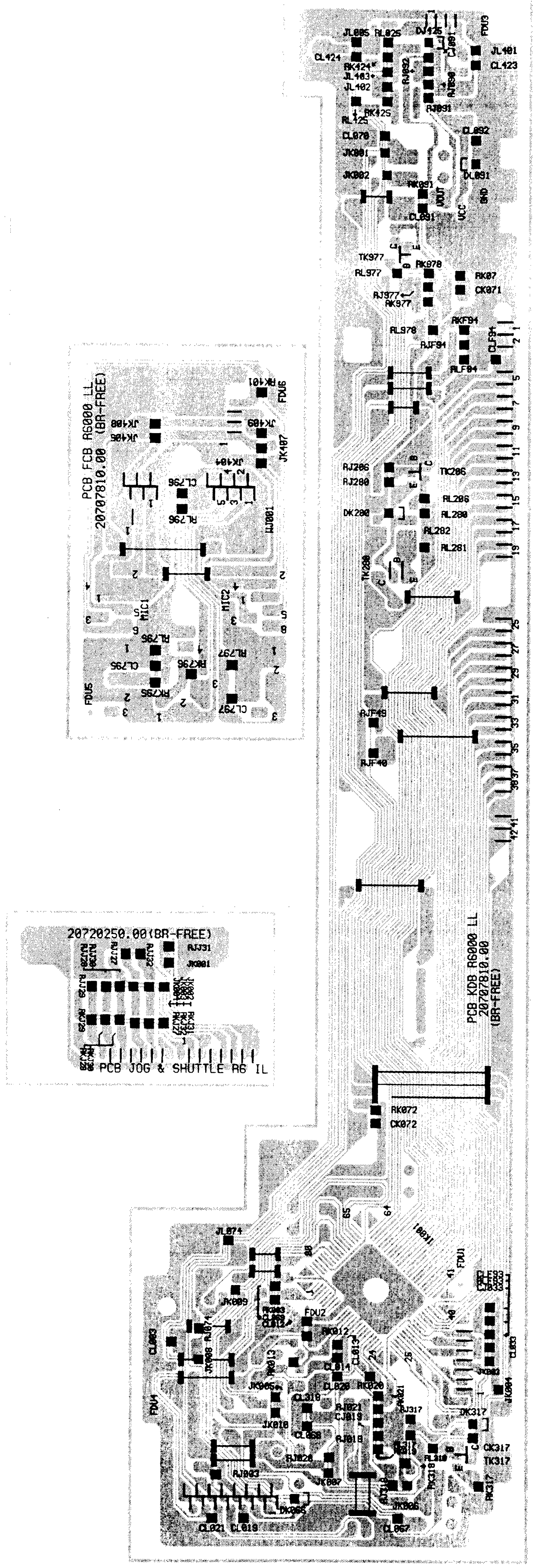

11-MT-83GK
GKF01
IK001
TMP87PP71F
RKF94 0R
RJF94 0R
RLF94 0R
UH+
UH++
CLF94 VAL
STOP/EJECT SK008
STANDBY SK004
F.FWD SK006
CH+ SK007
PLAY/PAUSE SK002
CH- SK003
F.REW SK005
REC. SK001
CL070 470pF
CL069 470pF
CL068 470pF
CL067 470pF
CJ072 VAL
RJ072 10K
CJ071 VAL
RJ071 10K
+5V
RJ308 2K2
RJ307 2K2
INDEX+
RK308 220
RK307 220
TO TERMINAL BOARD
GND
I2CDATA
I2C_CLK
GND
PIN_78
PIN_77
BK506
IK302
ST24C08
EEPROM
RJ578 10K
RJ577 10K
JL074 0R0
RJ074 10K
UH-
ZMM4.7 DK066
CJ019 VAL
RJ019
RJ020
RJ021
RJ003
RK019 220
RK020 220
RK021 220
RK003 220
RK012 220
CL012 10nF
LKF93 VAL
UH--
CLF93 10nF
RLF93 5K6
CL033 100nF
SAT COMMANDER CBC
+6V
CK280 470uF
GK202 DEV
GK203 DEV
GK204 DEV
RJ206 10K
RJ280 1K2
DK280 LL4148
TK280 BC337
TK206 2SA1162
RL280 3K
RL281 6R8
RL282 VAL
RL206 220
RJ422 10K
RJ423 10K
RJ424 10K
RJ425 10K
KARAOKE
BK405
BUSY
SCORE_DETECT
MUSIC_DETECT
D_GND
MIC SW
TO THE JACKBOARD
RK013 1M
QK001 8MHZ
CL014 68pF
CL013 56pF
GP1U587X
ZK001 TFMT5330
RJ092 4K7
CJ091 VAL
RJ090 120
RJ091 100
DL091 DEV
CL092 330nF
RK091 220
CL091 22pF
WJ005
RJ318 VAL
CL318 VAL
IK303 74HC00
RJ305 VAL
GK305 SFH2030F
TK305 2SC2712
RL398 VAL
RL305 VAL
(7=GND,14=+5V)
LEARNING SAT.
20 63 47 80 KDB AL
AYDIO
GND
GND
VIDEO
BK04
VIDEO PK01
RK95 75R
CK95 560pF
RL96 2K7
AUDIO PK02
CJ95 560pF
RJ95 47K
FCB
JJ003
JJ005,JJ006 JJ007,JJ009
CAMPAUSE
KARAOKE
PK404
RK401 VAL
CL401 VAL
RL401 VAL
CL402 VAL
CAMERA PAUSE
CK033 330uF
330nF CJ033
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REEMOTE
KDB_RESET
NC
CAMERA_PAUSE
TO MAIN BOARD BT 003

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (THOMSON : VPH 6751)

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

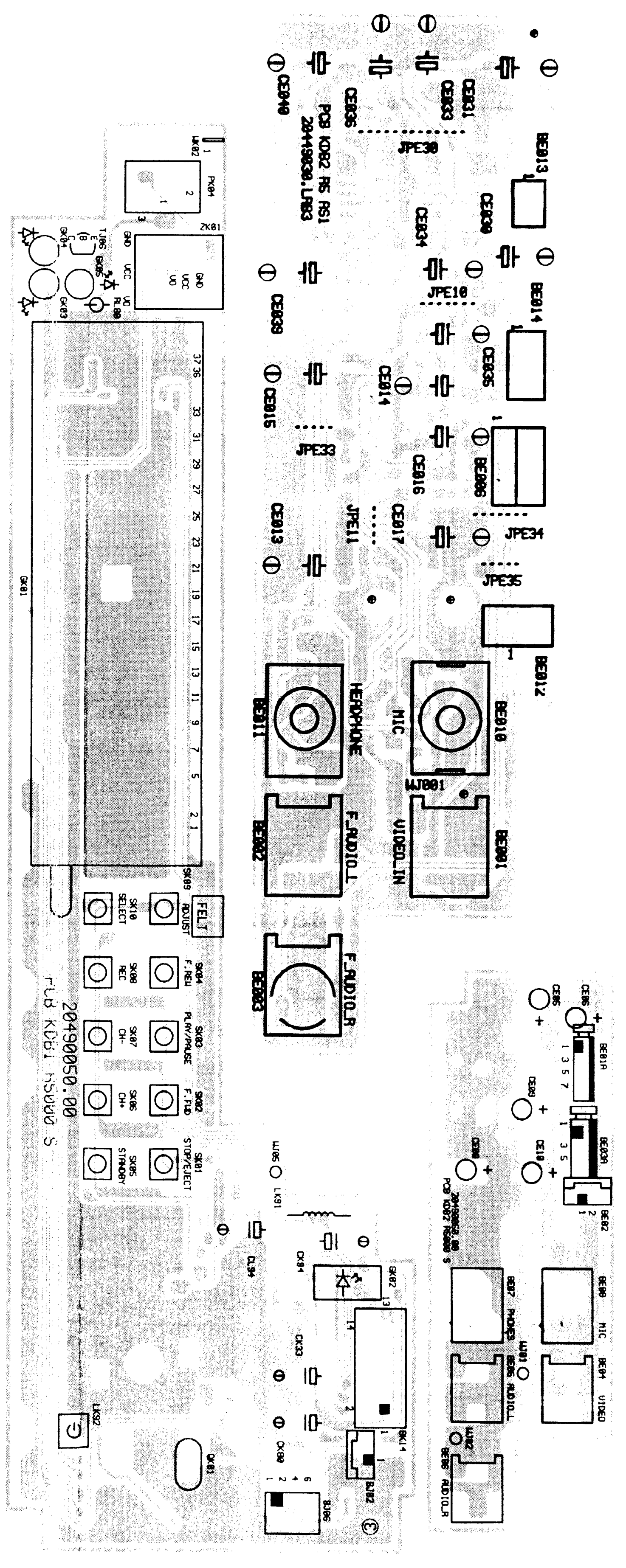

PCB KDB R6000 LL
20707810.00
(BR-FREE)
PCB FCB R6000 LL
20707810.00 (BR-FREE)
WKJ08
SKS07
PLAY/PAUSE
STOP/EJECT

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre

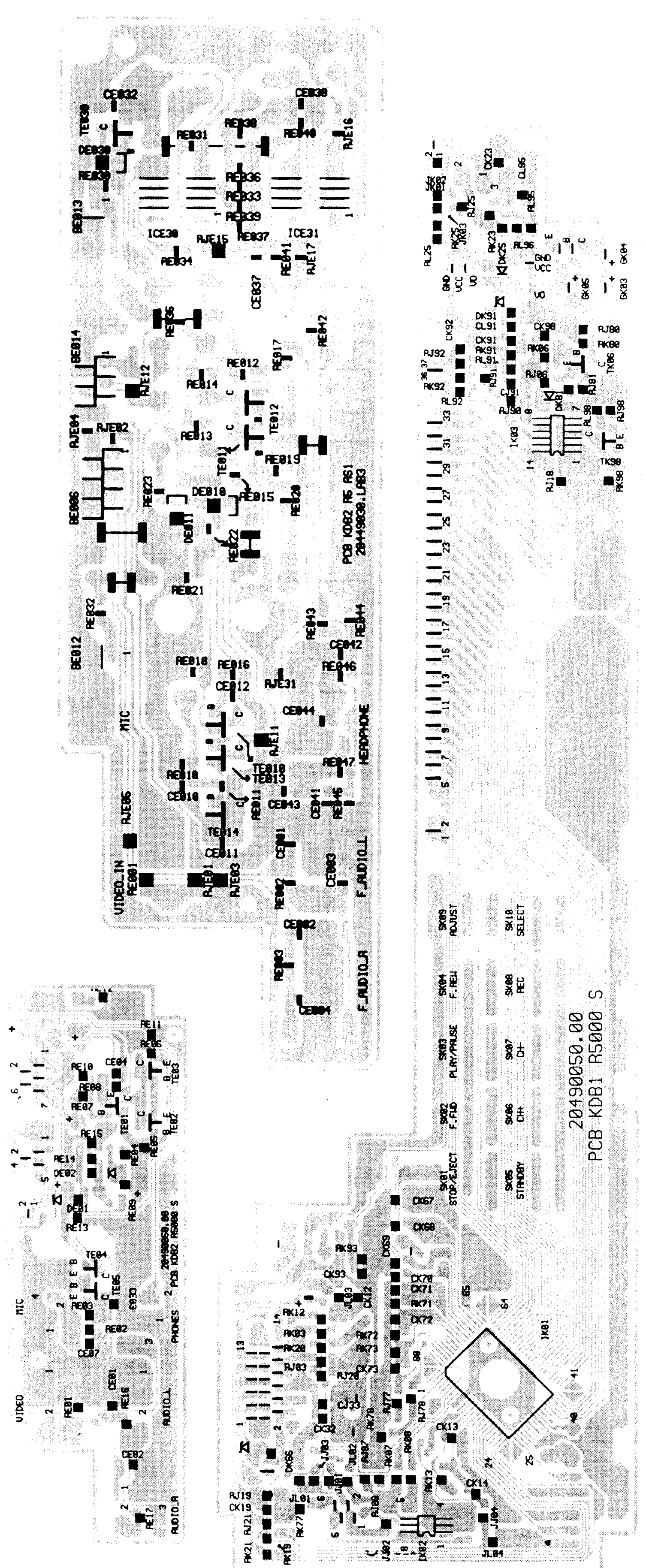

PCB FCB R6000 LL
20707810.00
(BR-FREE)
20720250.00(BR-FREE)
PCB JOG & SHUTTLE R6 IL
PCB KDB R6000 LL
20707810.00
(BR-FREE)

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (TELEFUNKEN : M 9571 HIFI)

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

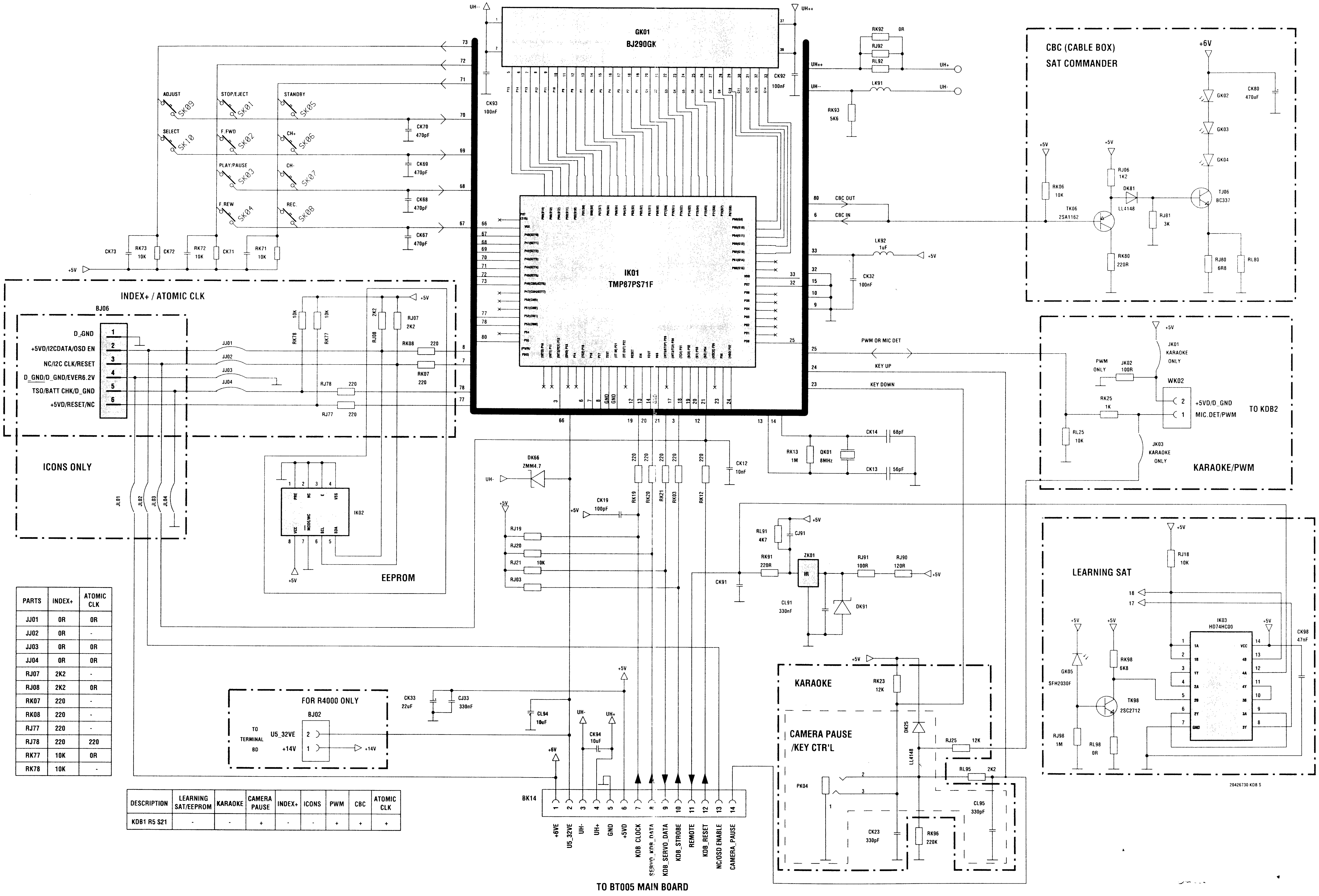

PCB KDB2 R5 RS1
20490030.LRB3
HEADPHONE
MIC
VIDEO_IN
F_AUDIO_L
F_AUDIO_R
PCB KDB1 R5000 S
20490050.00

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


PCB KDB2 R5 RS1
20490030.LRB3
HEADPHONE
MIC
VIDEO_IN
F_AUDIO_L
F_AUDIO_R
20490050.00
PCB KDB1 R5000 S

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (TELEFUNKEN: M 9571 HiFI)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

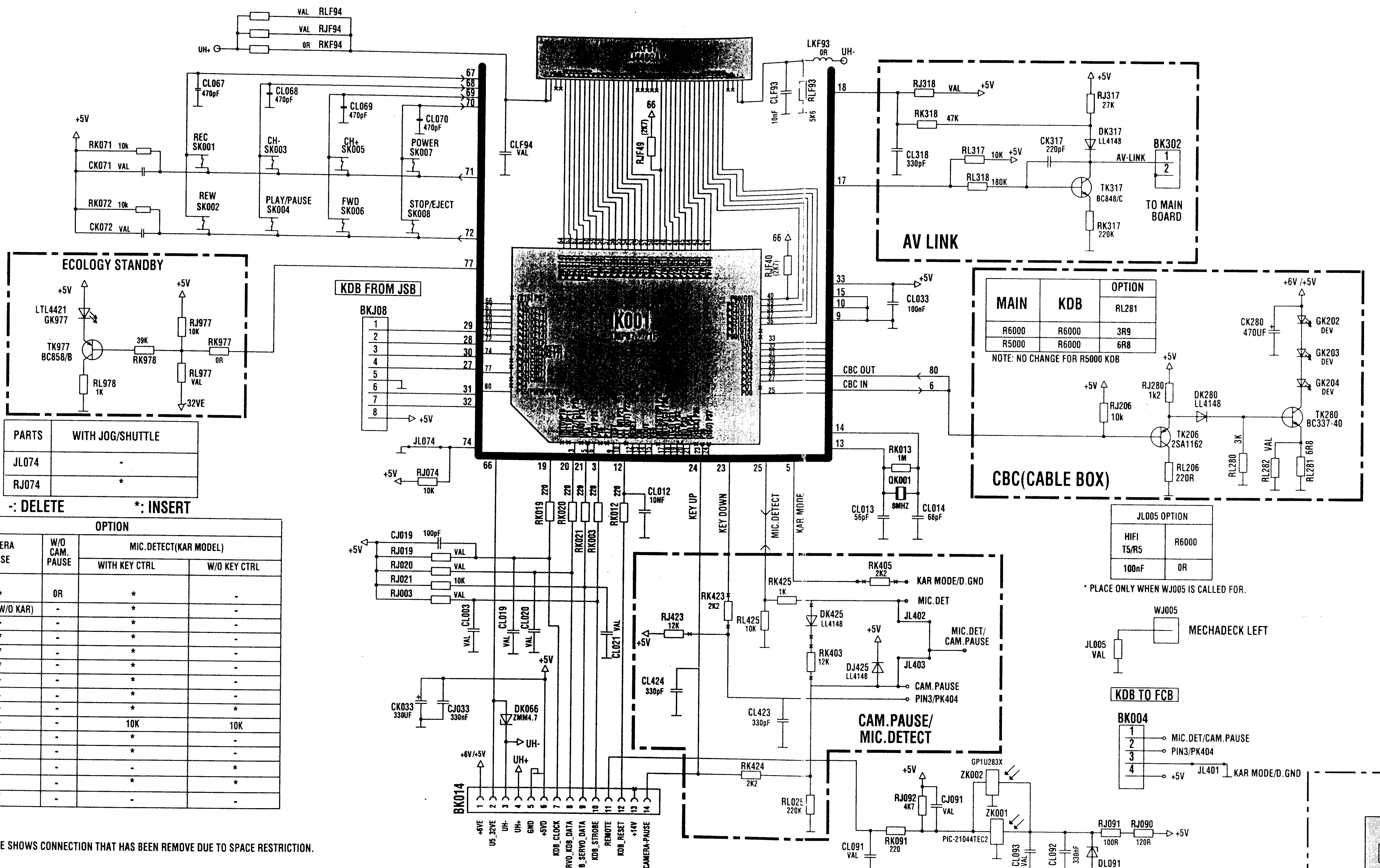

GK01
BJ290GK
IK01
TMP87PS71F
ADJUST
SK09
SELECT
SK10
STOP/EJECT
SK01
F.FWD
SK02
PLAY/PAUSE
SK03
F.REW
SK04
STANDBY
SK05
CH+
SK06
CH-
SK07
REC.
SK08
CK70 470pF
CK69 470pF
CK68 470pF
CK67 470pF
CK73
RK73 10K
CK72
RK72 10K
CK71
RK71 10K
+5V
CK93 100nF
CK92 100nF
UH++
UH--
UH+
UH-
RK92 0R
RJ92
RL92
LK91
RK93 5K6
CBC (CABLE BOX)
SAT COMMANDER
+6V
GK02
GK03
GK04
CK80 470uF
RK06 10K
RJ06 1K2
DK81 LL4148
TJ06 BC337
TK06 2SA1162
RJ81 3K
RK80 220R
RJ80 6R8
RL80
CBC OUT
CBC IN
LK92 1uF
CK32 100nF
INDEX+ / ATOMIC CLK
BJ06
D_GND
+5VD/I2CDATA/OSD EN
NC/I2C CLK/RESET
D_GND/D_GND/EVER6.2V
TSO/BATT CHK/D_GND
+5VD/RESET/NC
JJ01
JJ02
JJ03
JJ04
RK78 10K
RK77 10K
RJ08 2K2
RJ07 2K2
RK08 220
RK07 220
RJ78 220
RJ77 220
ICONS ONLY
JL01
JL02
JL03
JL04
IK02
EEPROM
PWM OR MIC DET
KEY UP
KEY DOWN
PWM ONLY
JK02 100R
JK01 KARAOKE ONLY
WK02
+5VD/D_GND
MIC.DET/PWM
TO KDB2
RK25 1K
RL25 10K
JK03 KARAOKE ONLY
KARAOKE/PWM
CK14 68pF
CK13 56pF
RK13 1M
QK01 8MHz
CK12 10nF
DK66 ZMM4.7
CK19 100pF
RK19 220
RK20 220
RK21 220
RK03 220
RK12 220
RJ19
RJ20
RJ21 10K
RJ03
CK91
RL91 4K7
CJ91
RK91 220R
ZK01
IR
RJ91 100R
RJ90 120R
CL91 330nF
DK91
LEARNING SAT
RJ18 10K
IK03
HD74HC00
CK98 47nF
GK05
SFH2030F
RK98 6K8
TK98 2SC2712
RJ98 1M
RL98 0R
KARAOKE
RK23 12K
CAMERA PAUSE
/KEY CTR'L
DK25
LL4148
RJ25 12K
RL95 2K2
PK04
CL95 330pF
CK23 330pF
RK96 220K
FOR R4000 ONLY
BJ02
TO TERMINAL BD
U5_32VE
+14V
CK33 22uF
CJ33 330nF
CL94 10uF
CK94 10uF
BK14
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
NC/OSD ENABLE
CAMERA_PAUSE
TO BT005 MAIN BOARD
20426730 KDB S

PARTS	INDEX+	ATOMIC CLK
JJ01	0R	0R
JJ02	0R	-
JJ03	0R	0R
JJ04	0R	0R
RJ07	2K2	-
RJ08	2K2	0R
RK07	220	-
RK08	220	-
RJ77	220	-
RJ78	220	220
RK77	10K	0R
RK78	10K	-

DESCRIPTION	LEARNING SAT/EEPROM	KARAOKE	CAMERA PAUSE	INDEX+	ICONS	PWM	CBC	ATOMIC CLK
KDB1 R5 S21	-	-	+	-	-	+	+	+

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (THOMSON: VPH 6751)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


ECOLOGY STANDBY
LTL4421 GK977
TK977 BC858/B
RK978 39K
RL978 1K
RJ977 10K
RK977 0R
RL977 VAL
32VE
RK071 10k
CK071 VAL
RK072 10k
CK072 VAL
CL067 470pF
CL068 470pF
CL069 470pF
CL070 470pF
REC SK001
CH- SK003
CH+ SK005
POWER SK007
REW SK002
PLAY/PAUSE SK004
FWD SK006
STOP/EJECT SK008
RLF94 VAL
RJF94 VAL
RKF94 0R
UH+
CLF94 VAL
LKF93 0R
UH-
CLF93 10nF
RLF93 5K6
RJF49 (2K7)
RJF40 (2K7)
KDB FROM JSB
BKJ08
RJ074 10K
JL074
+5V
K001
AV LINK
RJ318 VAL
RK318 47K
RJ317 27K
DK317 LL4148
CL318 330pF
RL317 10K
CK317 220pF
RL318 180K
AV-LINK
BK302
TK317 BC848/C
RK317 220K
TO MAIN BOARD
CL033 100nF
CBC OUT
CBC IN
CBC(CABLE BOX)
MAIN
KDB
OPTION
RL281
R6000
R5000
3R9
6R8
NOTE: NO CHANGE FOR R5000 KDB
+6V /+5V
CK280 470UF
GK202 DEV
GK203 DEV
GK204 DEV
RJ206 10k
RJ280 1k2
DK280 LL4148
TK280 BC337-40
TK206 2SA1162
RL206 220R
RL280 3K
RL282 VAL
RL281 6R8
RK013 1M
QK001 8MHZ
CL013 56pF
CL014 68pF
CL012 10NF
RK019 RK020 RK021 RK003 RK012
KEY UP
KEY DOWN
MIC.DETECT
KAR MODE
CJ019 100pF
RJ019 VAL
RJ020 VAL
RJ021 10K
RJ003 VAL
CL003 VAL
CL019 VAL
CL020 VAL
CL021 VAL
CK033 330UF
CJ033 330nF
DK066 ZMM4.7
UH-
UH+
+6V/+5V
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
RK405 2K2
KAR MODE/D.GND
RK423 2K2
RK425 1K
MIC.DET
RJ423 12K
RL425 10K
DK425 LL4148
JL402
MIC.DET/ CAM.PAUSE
RK403 12K
DJ425 LL4148
JL403
CL424 330pF
CAM.PAUSE
PIN3/PK404
CL423 330pF
CAM.PAUSE/ MIC.DETECT
RK424 2K2
RL025 220K
GP1U283X
ZK002
RJ092 4K7
CJ091 VAL
ZK001
PIC-21041ETC2
RJ091 100R
RJ090 120R
CL091 VAL
RK091 220
CL093 VAL
CL092
330nF
DL091 DEV
JL005 VAL
WJ005
MECHADECK LEFT
KDB TO FCB
BK004
MIC.DET/CAM.PAUSE
PIN3/PK404
JL401
KAR MODE/D.GND

PARTS	WITH JOG/SHUTTLE
JL074	-
RJ074	*

-: DELETE *: INSERT

PARTS	OPTION			
	CAMERA PAUSE	W/O CAM. PAUSE	MIC.DETECT(KAR MODEL)	
			WITH KEY CTRL	W/O KEY CTRL
CL424	*	0R	*	-
CL423	0R (W/O KAR)	-	*	-
DK425	-	-	*	-
DJ425	*	-	*	-
RK424	*	-	*	-
RL025	*	-	*	-
RK403	-	-	*	-
RK405	-	-	*	-
RK425	-	-	*	*
RL425	-	-	10K	10K
RJ423	-	-	*	-
RK423	-	-	*	-
JL401	-	-	-	*
JL402	-	-	*	*
JL403	*	-	-	-

JL005 OPTION	
HIFI T5/R5	R6000
100nF	0R

* PLACE ONLY WHEN WJ005 IS CALLED FOR.

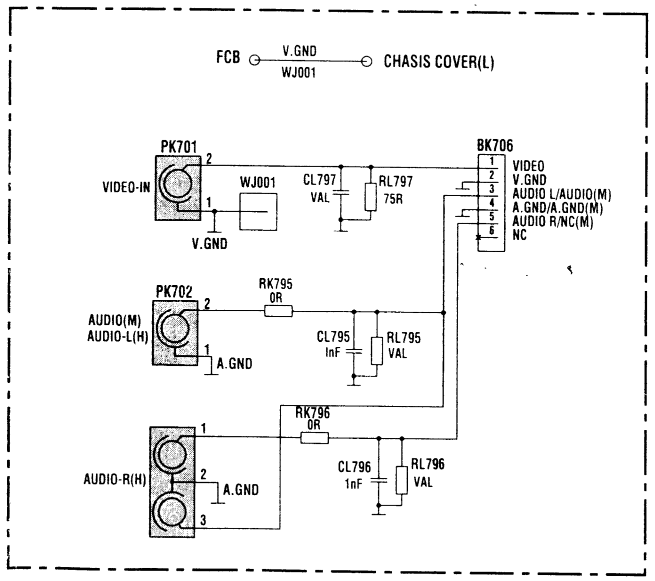
	KAR MODELS	CAM.PAUSE/MIC.DUB	CONNECTORS
MIC1	PK401	NO	BK404 + WK004
MIC2	PK402	NO	
CAM.PAUSE	NO	PK404	WK004 + BK402
MIC.DUB	NO	PK403	
RK401	YES	NO	
JK404	YES	NO	
JK405	YES	NO	
JJ406	YES	NO	
JK407	NO	YES	
JK408	NO	YES	
JK409	NO	YES	

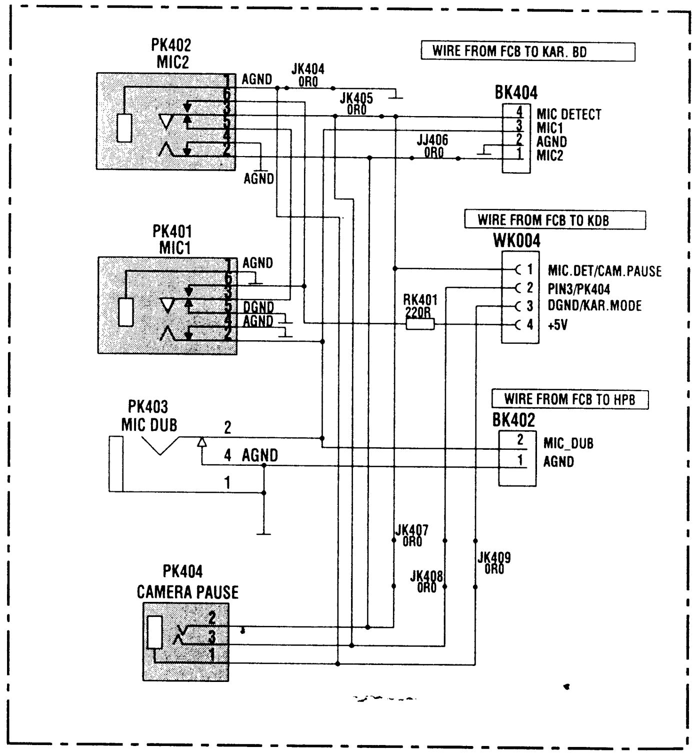
*NOTE : DOTTED LINE SHOWS CONNECTION THAT HAS BEEN REMOVE DUE TO SPACE RESTRICTION.

TOCOM NO	DESCRIPTION	CAM.P	MIC	FAV	JOG/SHUTT	CBC	KDB S/W	ECO	MODELS
20734370	ASY KDB/FCB/JSB R6 LL1/LL2/IL1	YES	-	3	YES	-	R6-N6T	-	VPH6751
20744030	ASY KDB/FCB/JSB R6 LL2/LL3/IL1	YES	1	3	YES	YES	R6-R6F	-	VPH6787
20722770	ASY KDB/FCB/JSB R6 LL3/LL1/IL1	YES	-	2	YES	YES	R6-R2T	YES	VP4780 VP4781
20748670	ASY KDB/FCB/JSB R6 JL1/JL1	YES	-	2	NO	YES	R6-R6F	YES	VP2757
20791310	ASY KDB/FCB/JSB R6 JL2/JL1	YES	-	2	NO	YES	R6-R2T	YES	VP2751

20723930 KDB/FCB (LL&JL)

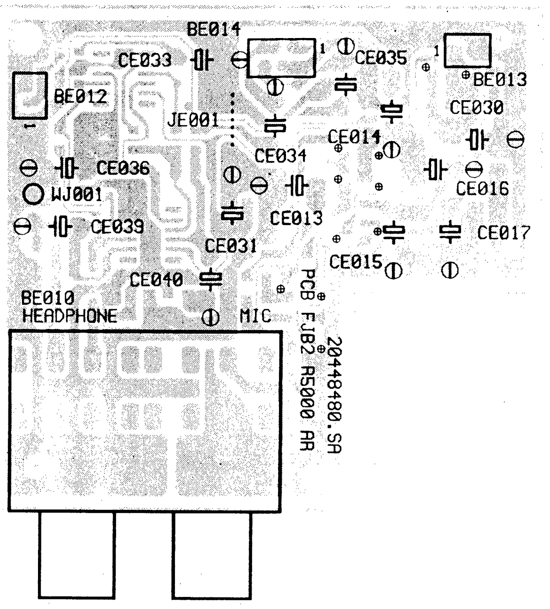
	OPTION	
	HIFI	MONO
	PK701	PK701
	PK702	PK702
	PK703	-
	BK706	BK704
CL797	-	-
RL797	YES	YES
RK795	YES	YES
CL795	-	-
RL795	YES	YES
RK796	YES	-
CL796	YES	-
RL796	-	-

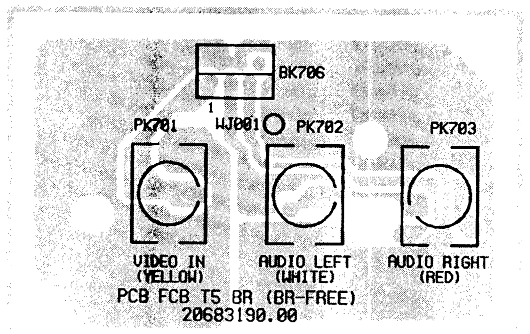

FCB
V.GND
WJ001
CHASIS COVER(L)
PK701
VIDEO-IN
WJ001
CL797 VAL
RL797 75R
V.GND
BK706
VIDEO
V.GND
AUDIO L/AUDIO(M)
A.GND/A.GND(M)
AUDIO R/NC(M)
NC
PK702
AUDIO(M) AUDIO-L(H)
RK795 0R
CL795 1nF
RL795 VAL
A.GND
RK796 0R
AUDIO-R(H)
CL796 1nF
RL796 VAL
A.GND

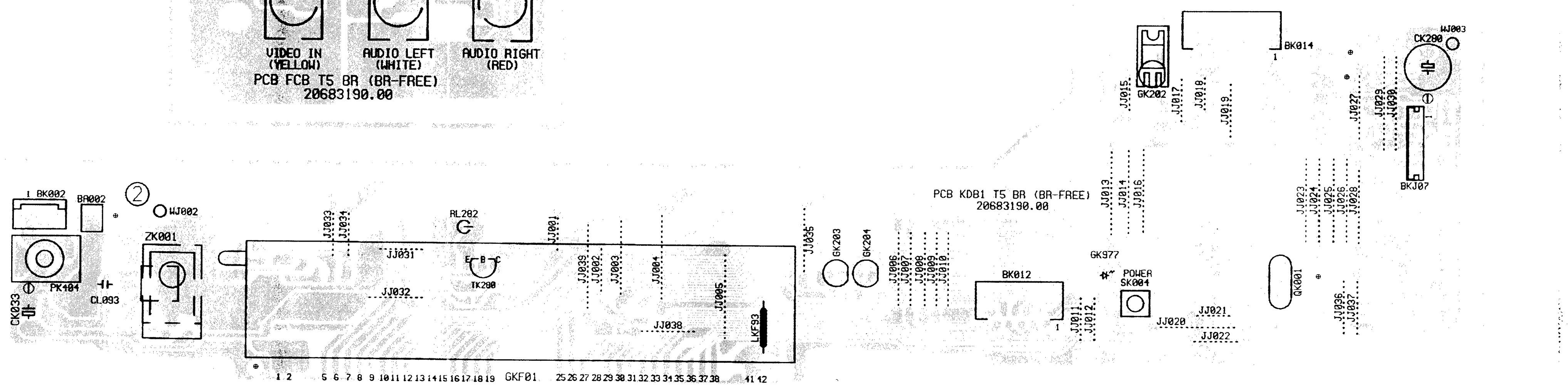

PK402 MIC2
AGND
JK404 0R0
JK405 0R0
WIRE FROM FCB TO KAR. BD
BK404
MIC DETECT
MIC1
AGND
MIC2
JJ406 0R0
PK401 MIC1
AGND
DGND
WIRE FROM FCB TO KDB
WK004
MIC.DET/CAM.PAUSE
PIN3/PK404
DGND/KAR.MODE
+5V
RK401 220R
PK403 MIC DUB
4 AGND
WIRE FROM FCB TO HPB
BK402
MIC_DUB
AGND
JK407 0R0
JK408 0R0
JK409 0R0
PK404 CAMERA PAUSE

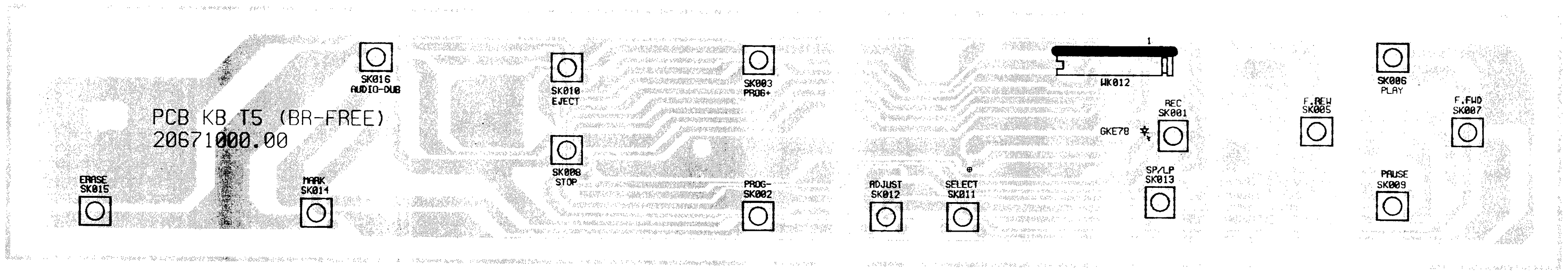
KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (THOMSON : VPH 6780 - VPH 6790)

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

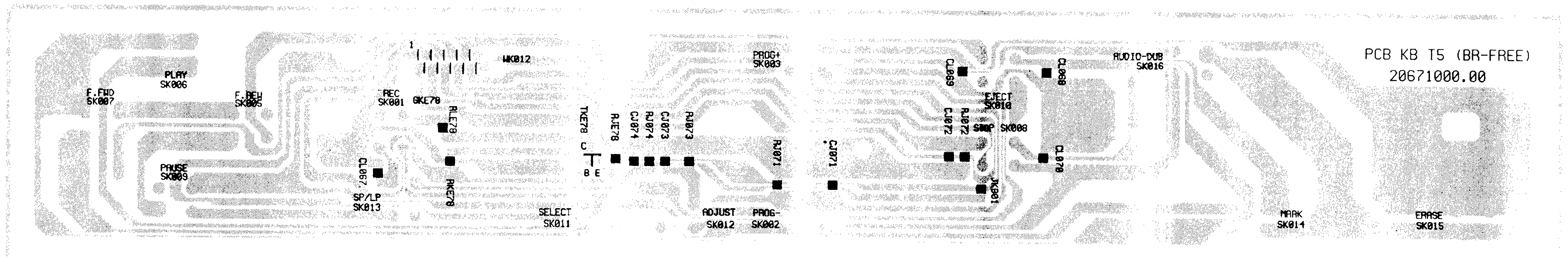

BE014
CE033
CE035
BE013
BE012
JE001
CE030
CE014
CE034
CE036
WJ001
CE016
CE039
CE013
CE017
CE031
CE015
CE040
BE010
HEADPHONE
MIC
PCB FJB2 A5000 AR
20448480.SA

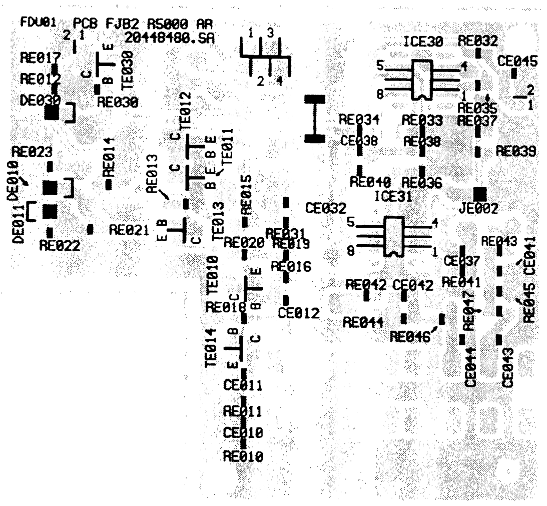

BK706
PK701
WJ001
PK702
PK703
VIDEO IN
(YELLOW)
AUDIO LEFT
(WHITE)
AUDIO RIGHT
(RED)
PCB FCB T5 BR (BR-FREE)
20683190.00

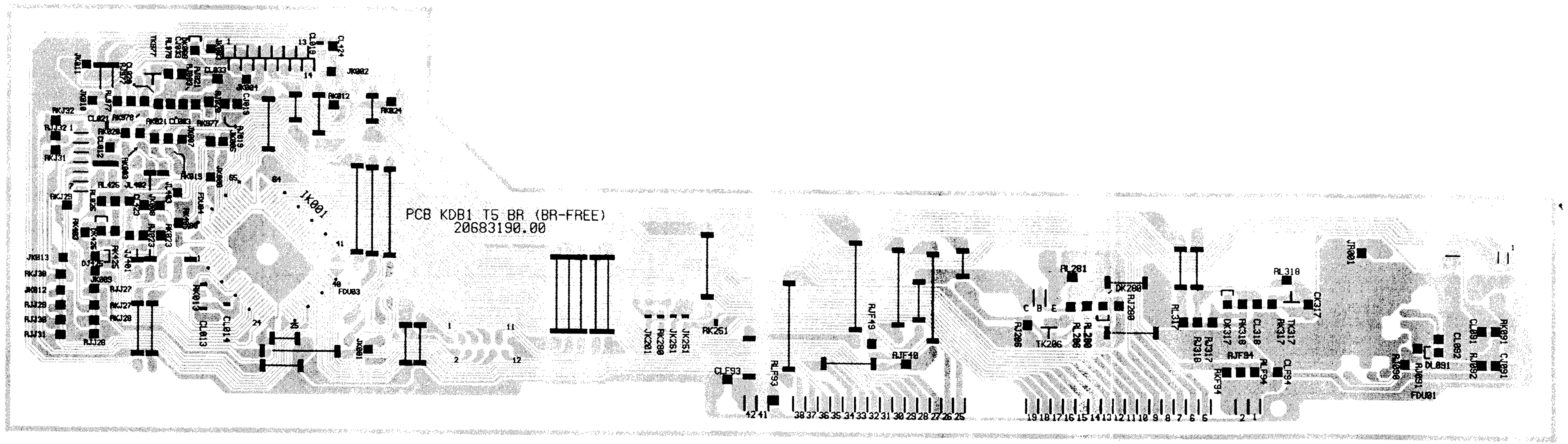

BK002
BA002
②
WJ002
ZK001
PK404
CL093
CK033
JJ033
JJ034
JJ031
JJ032
RL202
TK200
JJ001
JJ039
JJ002
JJ003
JJ004
JJ005
JJ038
LKF93
JJ035
GK203
GK204
JJ006
JJ007
JJ008
JJ009
JJ010
BK012
GK977
POWER
SK004
JJ011
JJ012
JJ020
JJ021
JJ022
PCB KDB1 T5 BR (BR-FREE)
20683190.00
JJ013
JJ014
JJ016
JJ015
GK202
JJ017
JJ018
JJ019
BK014
JJ022
JJ023
JJ024
JJ025
JJ026
JJ028
JJ029
JJ030
WJ003
CK200
BKJ07
QK001
JJ036
JJ037
1 2 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 GKF01 25 26 27 28 29 30 31 32 33 34 35 36 37 38 41 42

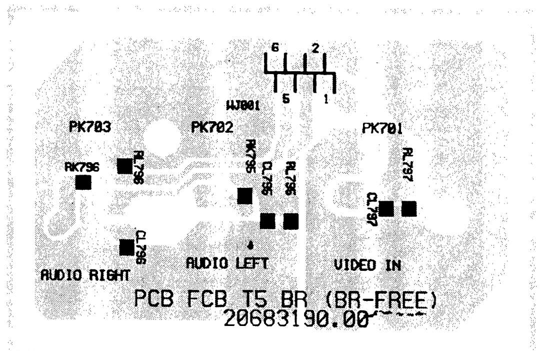

PCB KB T5 (BR-FREE)
20671000.00
SK016
AUDIO-DUB
SK010
EJECT
SK003
PROG+
WK012
REC
SK001
GKE70
SK006
PLAY
F.REW
SK005
F.FWD
SK007
ERASE
SK015
MARK
SK014
SK008
STOP
PROG-
SK002
ADJUST
SK012
SELECT
SK011
SP/LP
SK013
PAUSE
SK009

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


F.FWD
SK007
PLAY
SK006
F.REW
SK005
REC
SK001
GKE70
WK012
PROG+
SK003
PAUSE
SK009
SP/LP
SK013
SELECT
SK011
ADJUST
SK012
PROG-
SK002
EJECT
SK010
SK008
AUDIO-DUB
SK016
MARK
SK014
ERASE
SK015
PCB KB T5 (BR-FREE)
20671000.00

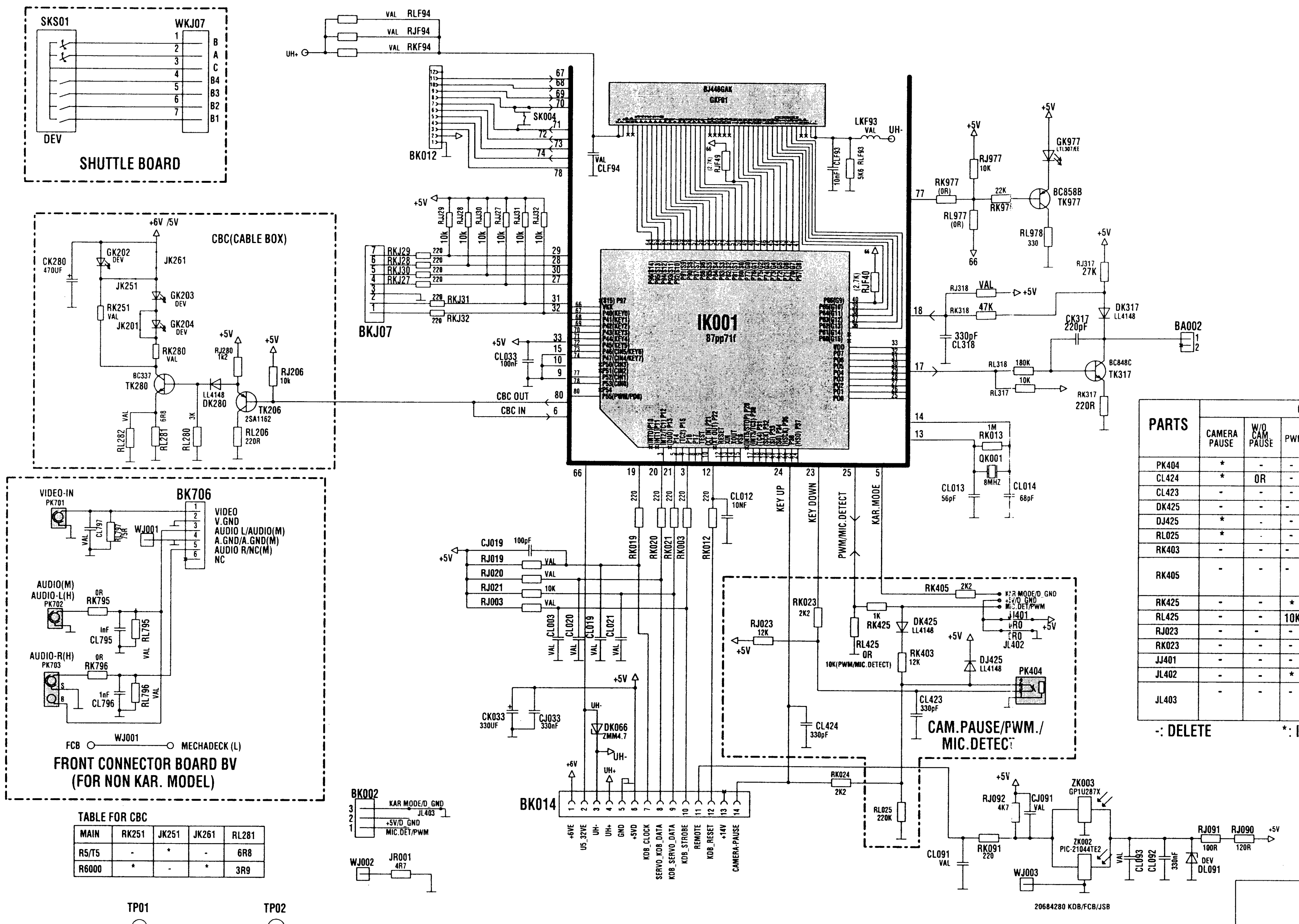

FDU01
PCB FJB2 A5000 AR
20448480.SA
RE017
RE012
DE030
RE030
TE030
TE012
TE011
ICE30
RE032
CE045
RE035
RE037
RE034
RE033
CE038
RE038
RE039
RE023
DE010
DE011
RE014
RE013
RE015
RE040
RE036
ICE31
JE002
CE032
RE021
RE022
TE013
RE020
RE031
RE019
RE016
RE043
CE037
CE041
TE010
RE018
CE012
RE042
CE042
RE041
RE044
RE046
RE045
TE014
CE044
CE043
CE011
RE011
CE010
RE010


PCB KDB1 T5 BR (BR-FREE)
20683190.00
JK001
RL201
DK200
RL310
RJF49
RJF48
TK206
CL013
CL014
FDU01
DL031
CLF93
RLF93
RK251
JK261
JK201
42 41
38 37 36 35 34 33 32 31 30 29 28 27 26 25
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 2 1


WJ001
PK703
PK702
PK701
RK796
RL796
RL797
AUDIO RIGHT
AUDIO LEFT
VIDEO IN
PCB FCB T5 BR (BR-FREE)
20683190.00

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (THOMSON: VPH 6780 - VPH 6790)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

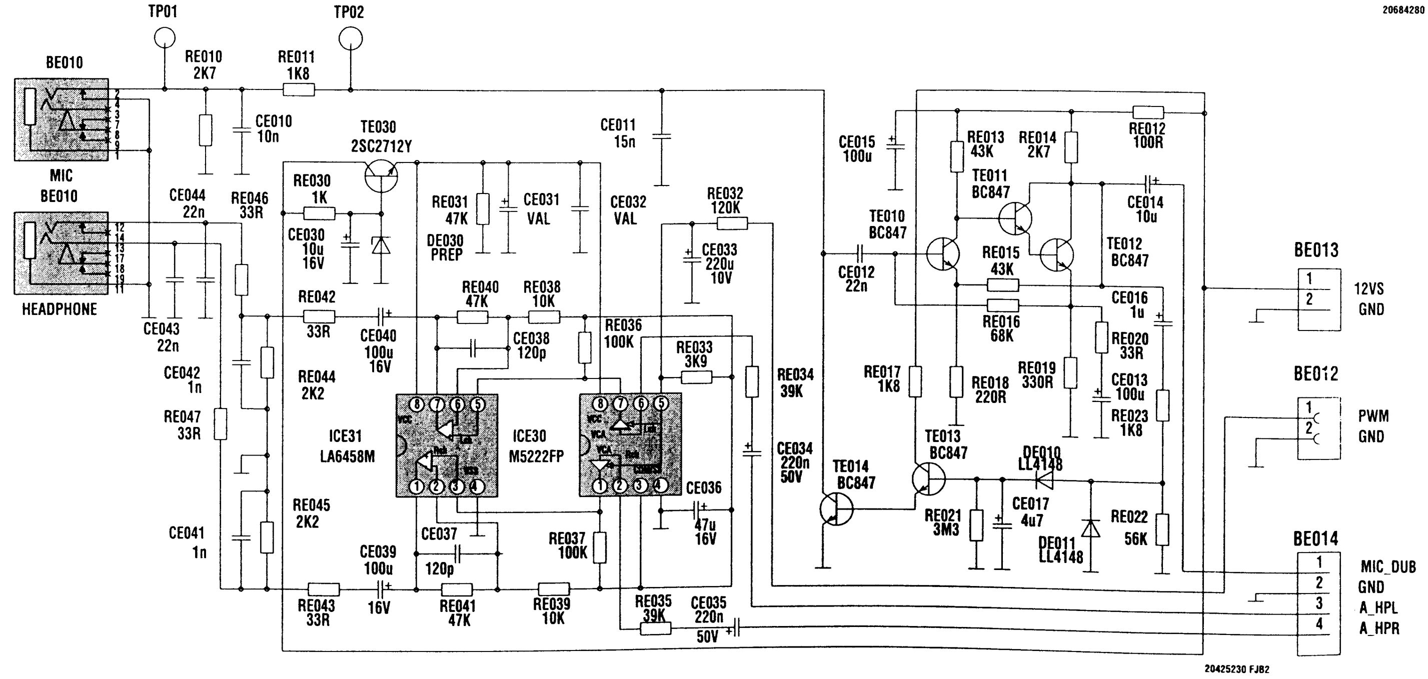

SKS01
WKJ07
DEV
SHUTTLE BOARD
CBC(CABLE BOX)
+6V /5V
CK280
GK202
JK261
JK251
RK251
JK201
GK203
GK204
RK280
BC337
TK280
LL4148
DK280
TK206
2SA1162
RJ206
RL206
RL282
RL281
RL280
VIDEO-IN
PK701
BK706
VIDEO
V.GND
AUDIO L/AUDIO(M)
A.GND/A.GND(M)
AUDIO R/NC(M)
NC
WJ001
AUDIO(M)
AUDIO-L(H)
PK702
RK795
CL795
RL795
AUDIO-R(H)
PK703
RK796
CL796
RL796
FCB
WJ001
MECHADECK (L)
FRONT CONNECTOR BOARD BV
(FOR NON KAR. MODEL)
UH+
RLF94
RJF94
RKF94
BK012
SK004
CLF94
BKJ07
RKJ29
RKJ28
RKJ30
RKJ27
RKJ31
RKJ32
CL033
CBC OUT
CBC IN
IK001
87pp71f
LKF93
CLF93
RLF93
RJF40
+5V
RJ977
RK977
RL977
BC858B
TK977
GK977
RL978
RJ317
RJ318
RK318
DK317
LL4148
CK317
220pF
CL318
330pF
BA002
RL318
RL317
RK317
220R
BC848C
TK317
RK013
QK001
8MHZ
CL013
56pF
CL014
68pF
KEY UP
KEY DOWN
PWM/MIC.DETECT
KAR.MODE
CL012
10NF
RK019
RK020
RK021
RK003
RK012
CJ019
RJ019
RJ020
RJ021
RJ003
CL003
CL020
CL019
CL021
RK023
RJ023
RK405
RK425
DK425
RL425
RK403
DJ425
PK404
CL423
330pF
CL424
330pF
CAM.PAUSE/PWM./
MIC.DETECT
CK033
CJ033
DK066
ZMM4.7
BK014
+5V
U5_32VE
UH-
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
+14V
KDB_RESET
CAMERA-PAUSE
RK024
RL025
220K
BK002
KAR MODE/D_GND
JL403
+5V/D_GND
MIC.DET/PWM
WJ002
JR001
4R7
RJ092
CJ091
ZK003
GP1U287X
ZK002
PIC-21044TE2
CL091
RK091
WJ003
CL093
CL092
RJ091
100R
RJ090
120R
DL091
20684280 KDB/FCB/JSB

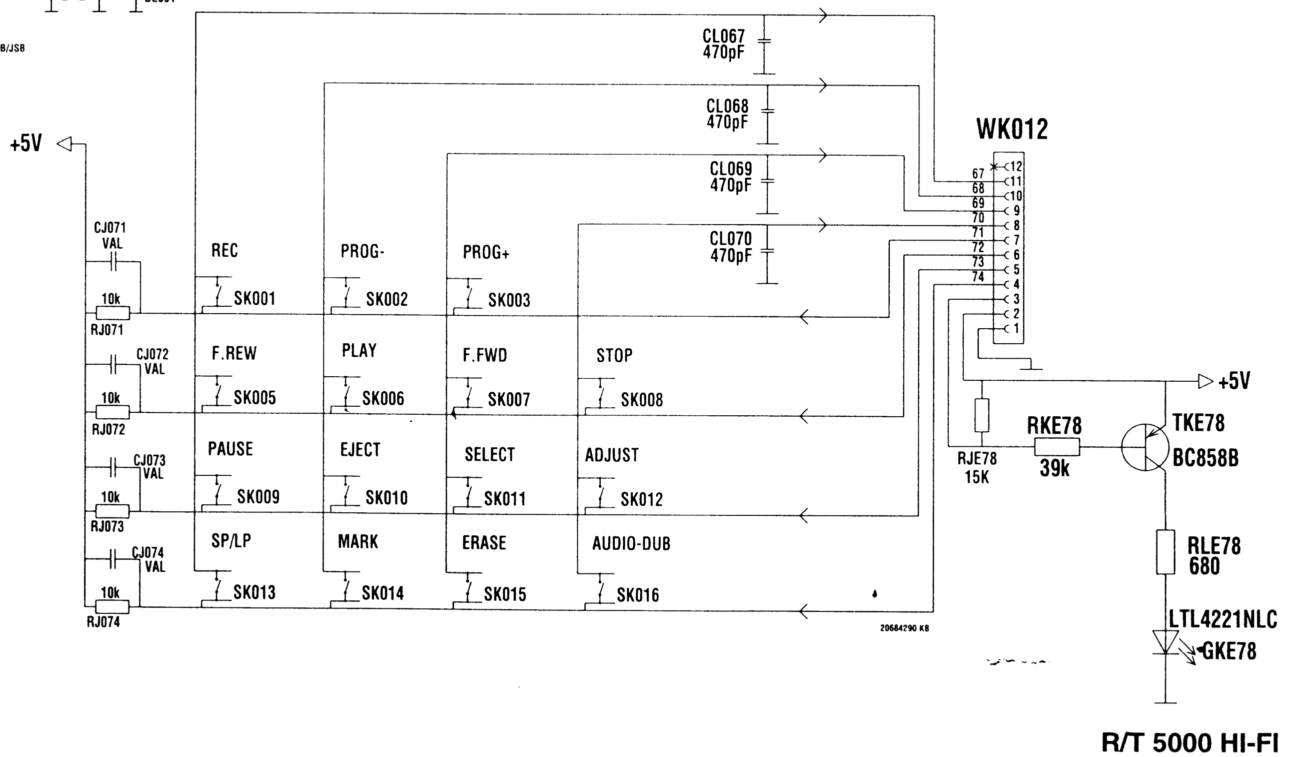
PARTS	OPTION					
	CAMERA PAUSE	W/O CAM. PAUSE	PWM	MIC.DETECT	NON KAR. MODELS	
					ASIA	EUROPE
PK404	*	-	-	-	-	-
CL424	*	0R	-	-	-	-
CL423	-	-	-	*	-	-
DK425	-	-	-	*	-	-
DJ425	*	-	-	*	-	-
RL025	*	-	-	*	*	*
RK403	-	-	-	*	-	-
RK405	-	-	-	- (WITHOUT KAR MODE) * (WITH KAR MODE)	-	-
RK425	-	-	*	*	-	-
RL425	-	-	10K	10K	0R	-
RJ023	-	-	-	*	-	-
RK023	-	-	-	*	-	-
JJ401	-	-	-	*	-	-
JL402	-	-	*	-	-	-
JL403	-	-	-	* (WITHOUT KAR MODE) - (WITHKAR MODE)	-	-

-: DELETE *: INSERT

TABLE FOR CBC

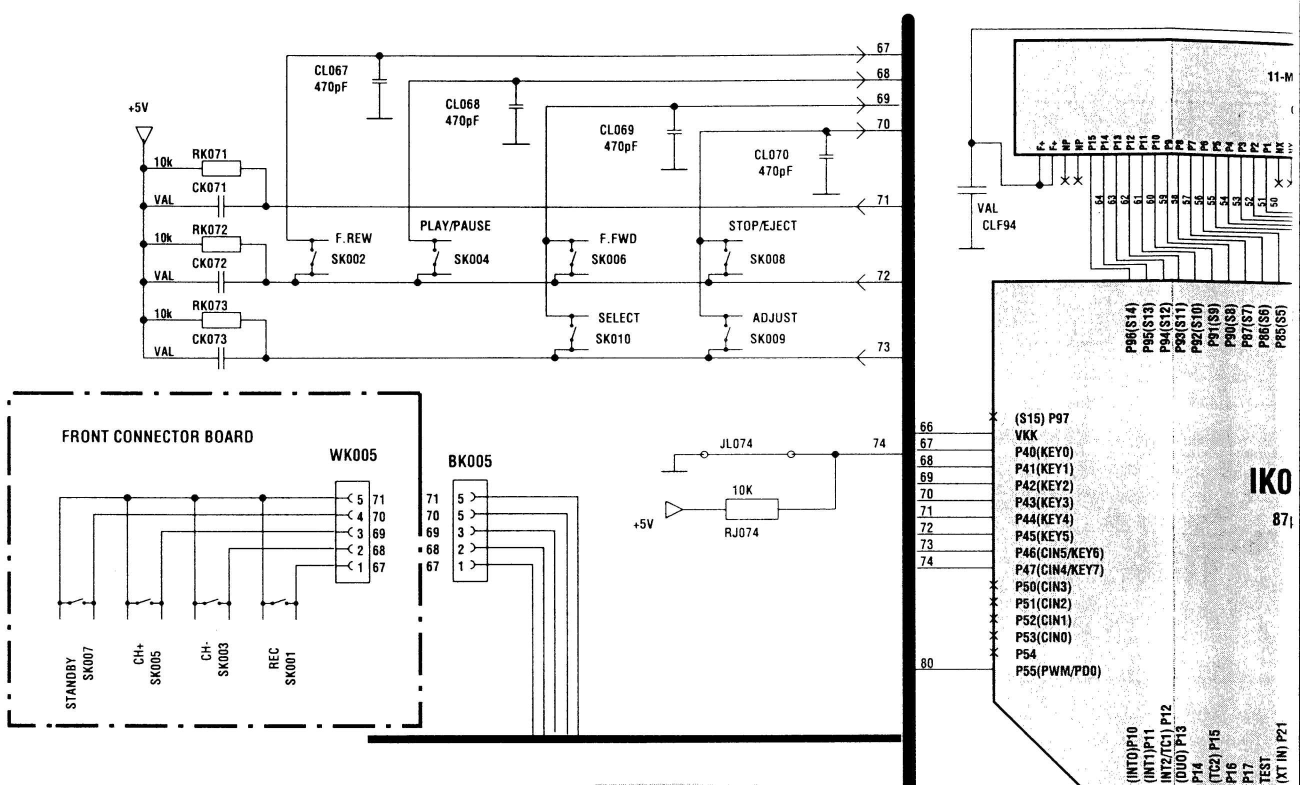
MAIN	RK251	JK251	JK261	RL281
R5/T5	-	*	-	6R8
R6000	*	-	*	3R9


TP01
TP02
BE010
RE010
2K7
RE011
1K8
CE010
10n
MIC
BE010
HEADPHONE
TE030
2SC2712Y
CE011
15n
CE044
22n
RE046
33R
RE030
1K
CE030
10u
16V
DE030
PREP
RE031
47K
CE031
VAL
CE032
VAL
RE032
120K
CE033
220u
10V
CE043
22n
CE042
1n
RE047
33R
CE041
1n
RE042
33R
CE040
100u
16V
RE040
47K
RE038
10K
CE038
120p
RE036
100K
RE033
3K9
RE034
39K
RE044
2K2
ICE31
LA6458M
ICE30
M5222FP
CE034
220n
50V
CE036
47u
16V
RE045
2K2
CE039
100u
CE037
120p
RE037
100K
RE043
33R
16V
RE041
47K
RE039
10K
RE035
39K
CE035
220n
50V
CE015
100u
TE010
BC847
CE012
22n
RE013
43K
RE014
2K7
TE011
BC847
RE012
100R
CE014
10u
TE012
BC847
RE015
43K
RE016
68K
CE016
1u
RE020
33R
RE017
1K8
RE018
220R
RE019
330R
CE013
100u
RE023
1K8
TE013
BC847
DE010
LL4148
TE014
BC847
RE021
3M3
CE017
4u7
DE011
LL4148
RE022
56K
BE013
12VS
GND
BE012
PWM
GND
BE014
MIC_DUB
GND
A_HPL
A_HPR
20425230 FJB2

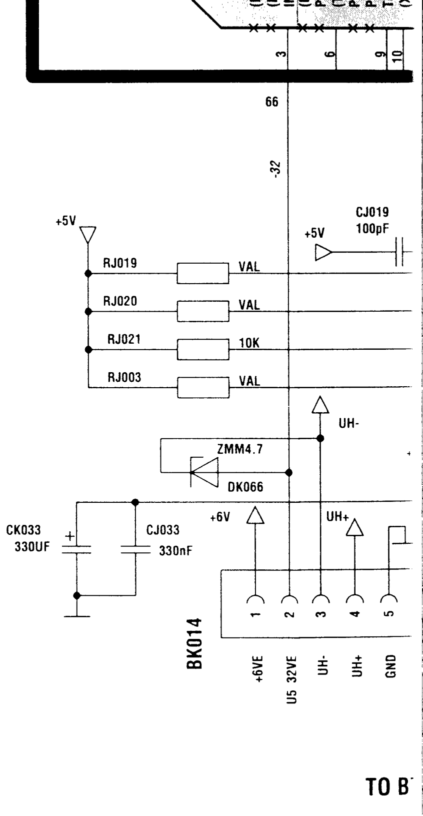

+5V
CL067
470pF
CL068
470pF
CL069
470pF
CL070
470pF
WK012
CJ071
VAL
RJ071
10k
CJ072
VAL
RJ072
CJ073
VAL
RJ073
CJ074
VAL
RJ074
REC
SK001
PROG-
SK002
PROG+
SK003
F.REW
SK005
PLAY
SK006
F.FWD
SK007
STOP
SK008
PAUSE
SK009
EJECT
SK010
SELECT
SK011
ADJUST
SK012
SP/LP
SK013
MARK
SK014
ERASE
SK015
AUDIO-DUB
SK016
RKE78
39k
RJE78
15K
TKE78
BC858B
+5V
RLE78
680
LTL4221NLC
GKE78
20684290 KB

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALI

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

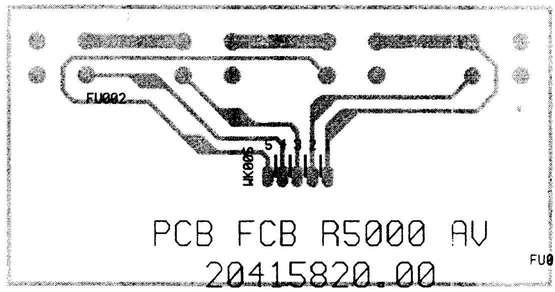


CL067 470pF
CL068 470pF
CL069 470pF
CL070 470pF
+5V
RK071 10k
CK071 VAL
RK072 10k
CK072 VAL
RK073 10k
CK073 VAL
F.REW SK002
PLAY/PAUSE SK004
F.FWD SK006
STOP/EJECT SK008
SELECT SK010
ADJUST SK009
67
68
69
70
71
72
73
74
FRONT CONNECTOR BOARD
WK005
BK005
STANDBY SK007
CH+ SK005
CH- SK003
REC SK001
JL074
RJ074 10K
+5V
VAL CLF94
11-M
(S15) P97
VKK
P40(KEY0)
P41(KEY1)
P42(KEY2)
P43(KEY3)
P44(KEY4)
P45(KEY5)
P46(CIN5/KEY6)
P47(CIN4/KEY7)
P50(CIN3)
P51(CIN2)
P52(CIN1)
P53(CIN0)
P54
P55(PWM/PDO)
IK0
80

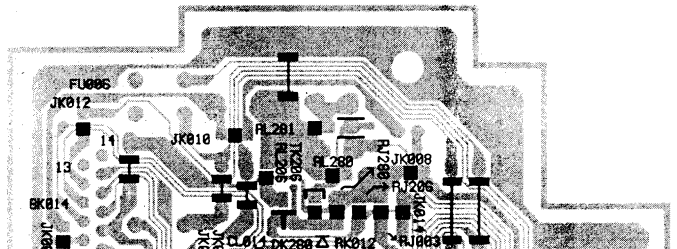
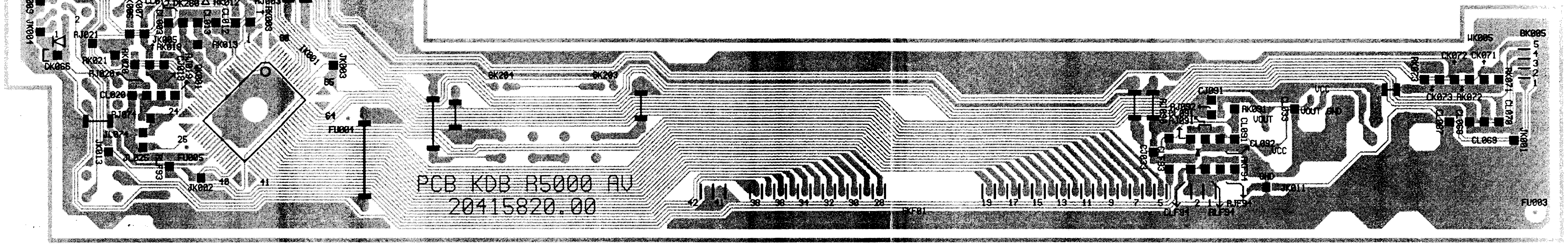


66
32
+5V
RJ019 VAL
RJ020 VAL
RJ021 10K
RJ003 VAL
CJ019 100pF
+5V
UH-
ZMM4.7
DK066
+6V
UH+
CK033 330UF
CJ033 330nF
BK014
+6VE
U5 32VE
UH-
UH+
GND
TO B

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre

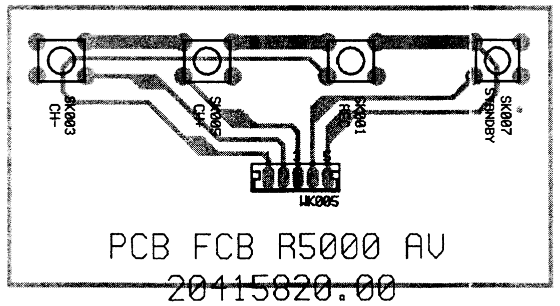


FU002
WK005
PCB FCB R5000 AV
20415820.00
FU001

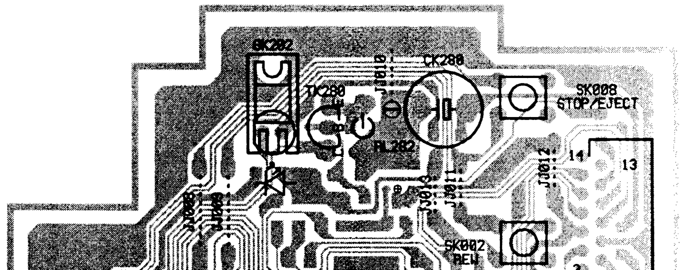



FU006
JK012
JK010
BK014
PCB KDB R5000 AV
20415820.00
FU001
BK005
WK005
FU003

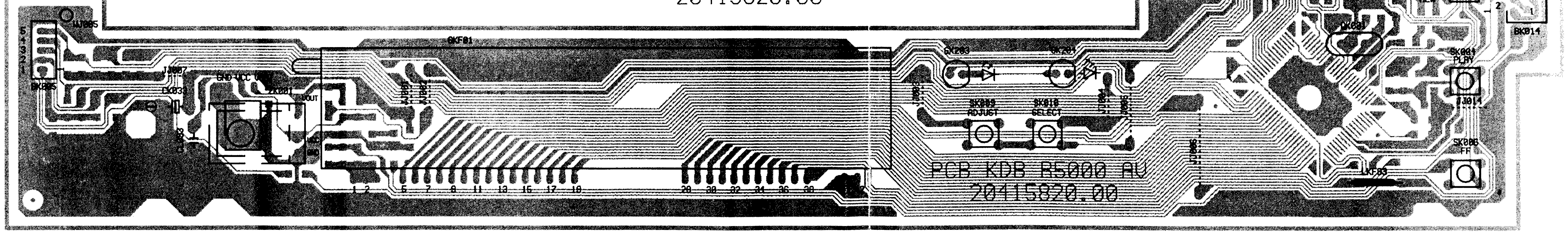
Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes



SK003 CH-
SK005 CH+
SK001 REC
SK007 STANDBY
WK005
PCB FCB R5000 AV
20415820.00



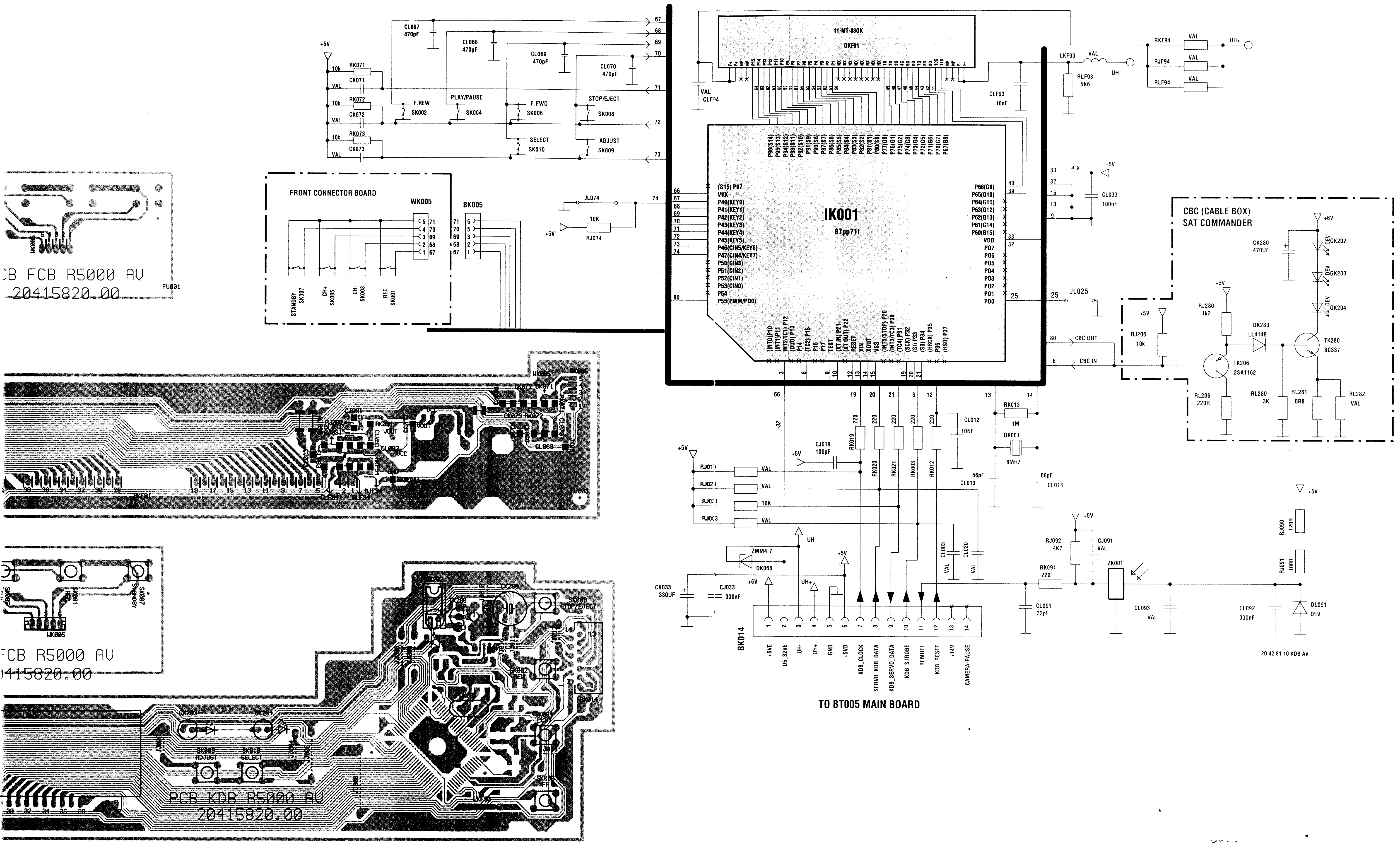
BK202
CK200
SK008 STOP/EJECT
SK002 REW
BK014



WK005
BK005
SKF01
SK203
SK201
SK009 ADJUST
SK010 SELECT
SK004 PLAY
SK006 FF
PCB KDB R5000 AV
20415820.00

AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (THOMSON: VPH 6601)

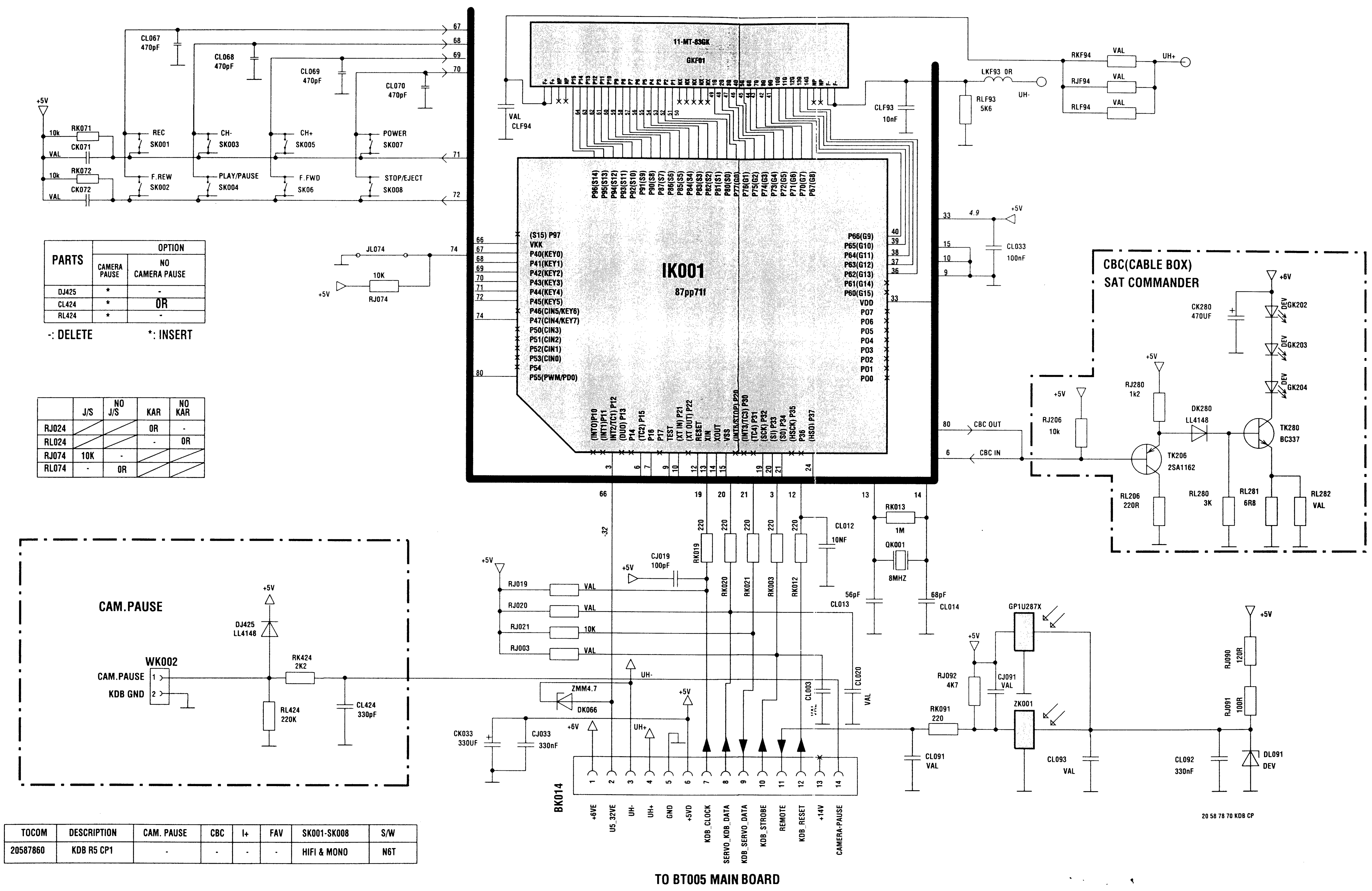
SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA



CL067 470pF
CL068 470pF
CL069 470pF
CL070 470pF
+5V
RK071 10k
CK071 VAL
RK072 10k
CK072 VAL
RK073 10k
CK073 VAL
F.REW SK002
PLAY/PAUSE SK004
F.FWD SK006
STOP/EJECT SK008
SELECT SK010
ADJUST SK009
FRONT CONNECTOR BOARD
WK005
BK005
STANDBY SK007
CH+ SK005
CH- SK003
REC SK001
JL074
10K RJ074
11-MT-83GK
GKF01
VAL CLF94
IK001
87pp711
(S15) P97
VKK
P40(KEY0)
P41(KEY1)
P42(KEY2)
P43(KEY3)
P44(KEY4)
P45(KEY5)
P46(CIN5/KEY6)
P47(CIN4/KEY7)
P50(CIN3)
P51(CIN2)
P52(CIN1)
P53(CIN0)
P54
P55(PWM/PDO)
P66(G9)
P65(G10)
P64(G11)
P63(G12)
P62(G13)
P61(G14)
P60(G15)
VDD
P07
P06
P05
P04
P03
P02
P01
P00
(INT0)P10
(INT1)P11
(INT2)(TC1) P12
(DUO) P13
P14
(TC2) P15
P16
P17
TEST
(XT IN) P21
(XT OUT) P22
RESET
XIN
XOUT
VSS
(INT5/STOP) P20
(INT3/TC3) P30
(TC4) P31
(SCK) P32
(SI) P33
(SO) P34
(HSCK) P35
P36
(HSO) P37
P96(S14)
P95(S13)
P94(S12)
P93(S11)
P92(S10)
P91(S9)
P90(S8)
P87(S7)
P86(S6)
P85(S5)
P84(S4)
P83(S3)
P82(S2)
P81(S1)
P80(S0)
P77(G0)
P76(G1)
P75(G2)
P74(G3)
P73(G4)
P72(G5)
P71(G6)
P70(G7)
P67(G8)
LKF93 VAL
RLF93 5K6
UH-
CLF93 10nF
RKF94 VAL
RJF94 VAL
RLF94 VAL
UH+
CL033 100nF
JL025
CBC OUT
CBC IN
CBC (CABLE BOX)
SAT COMMANDER
+6V
CK280 470UF
GK202 DEV
GK203 DEV
GK204 DEV
RJ280 1k2
DK280 LL4148
TK280 BC337
RJ206 10k
TK206 2SA1162
RL206 220R
RL280 3K
RL281 6R8
RL282 VAL
RK013 1M
QK001 8MHZ
CL012 10NF
56pF CL013
68pF CL014
RK019 220
RK020 220
RK021 220
RK003 220
RK012 220
CJ019 100pF
RJ011 VAL
RJ021 VAL
RJ031 10K
RJ013 VAL
ZMM4.7 DK066
CK033 330UF
CJ033 330nF
CL003 VAL
CL020 VAL
RJ092 4K7
CJ091 VAL
RK091 220
ZK001
CL091 22pF
CL093 VAL
RJ090 120R
RJ091 100R
DL091 DEV
CL092 330nF
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
TO BT005 MAIN BOARD
20 42 81 10 KDB AV
PCB FCB R5000 AV
20415820.00
FU001
PCB KDB R5000 AV
20415820.00
WK005
BK005
SK007 STANDBY
SK008 STOP/EJECT
SK009 ADJUST
SK010 SELECT
SK202
SK204
BK014

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (SABA: VR 7081)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


IK001
87pp71f
11-MT-83GK
GKF01
CL067 470pF
CL068 470pF
CL069 470pF
CL070 470pF
RK071
CK071
RK072
CK072
REC SK001
CH- SK003
CH+ SK005
POWER SK007
F.REW SK002
PLAY/PAUSE SK004
F.FWD SK06
STOP/EJECT SK008
JL074
RJ074 10K
VAL CLF94
CLF93 10nF
RLF93 5K6
LKF93 0R
RKF94 VAL
RJF94 VAL
RLF94 VAL
UH+
UH-
CL033 100nF
CBC(CABLE BOX)
SAT COMMANDER
CK280 470UF
GK202
GK203
GK204
RJ280 1k2
DK280 LL4148
TK280 BC337
RJ206 10k
TK206 2SA1162
RL206 220R
RL280 3K
RL281 6R8
RL282 VAL
CBC OUT
CBC IN
RK013 1M
QK001 8MHZ
CL012 10NF
CL013 56pF
CL014 68pF
RK019 220
RK020 220
RK021 220
RK003 220
RK012 220
CJ019 100pF
RJ019 VAL
RJ020 VAL
RJ021 10K
RJ003 VAL
CAM.PAUSE
DJ425 LL4148
WK002
CAM.PAUSE
KDB GND
RK424 2K2
RL424 220K
CL424 330pF
ZMM4.7
DK066
CK033 330UF
CJ033 330nF
CL003 VAL
CL020 VAL
GP1U287X
ZK001
RJ092 4K7
CJ091 VAL
RK091 220
CL091 VAL
CL093 VAL
CL092 330nF
RJ090 120R
RJ091 100R
DL091 DEV
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
TO BT005 MAIN BOARD
20 58 78 70 KDB CP

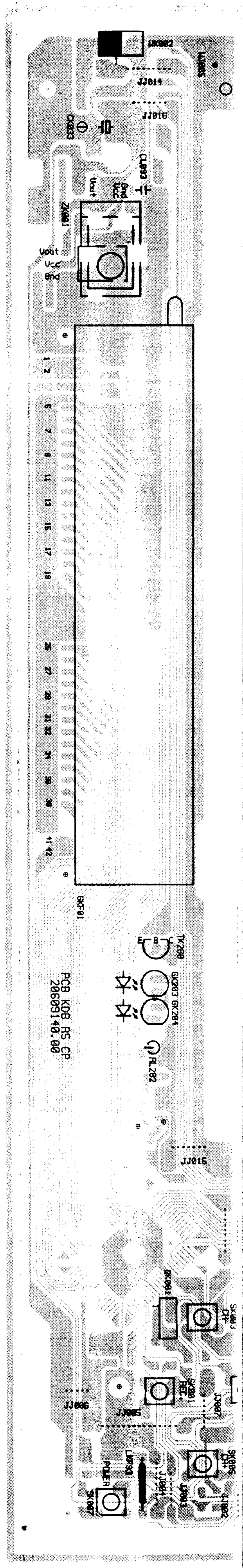
PARTS	OPTION	
	CAMERA PAUSE	NO CAMERA PAUSE
DJ425	*	-
CL424	*	0R
RL424	*	-

-: DELETE *: INSERT

	J/S	NO J/S	KAR	NO KAR
RJ024			0R	-
RL024			-	0R
RJ074	10K	-		
RL074	-	0R		

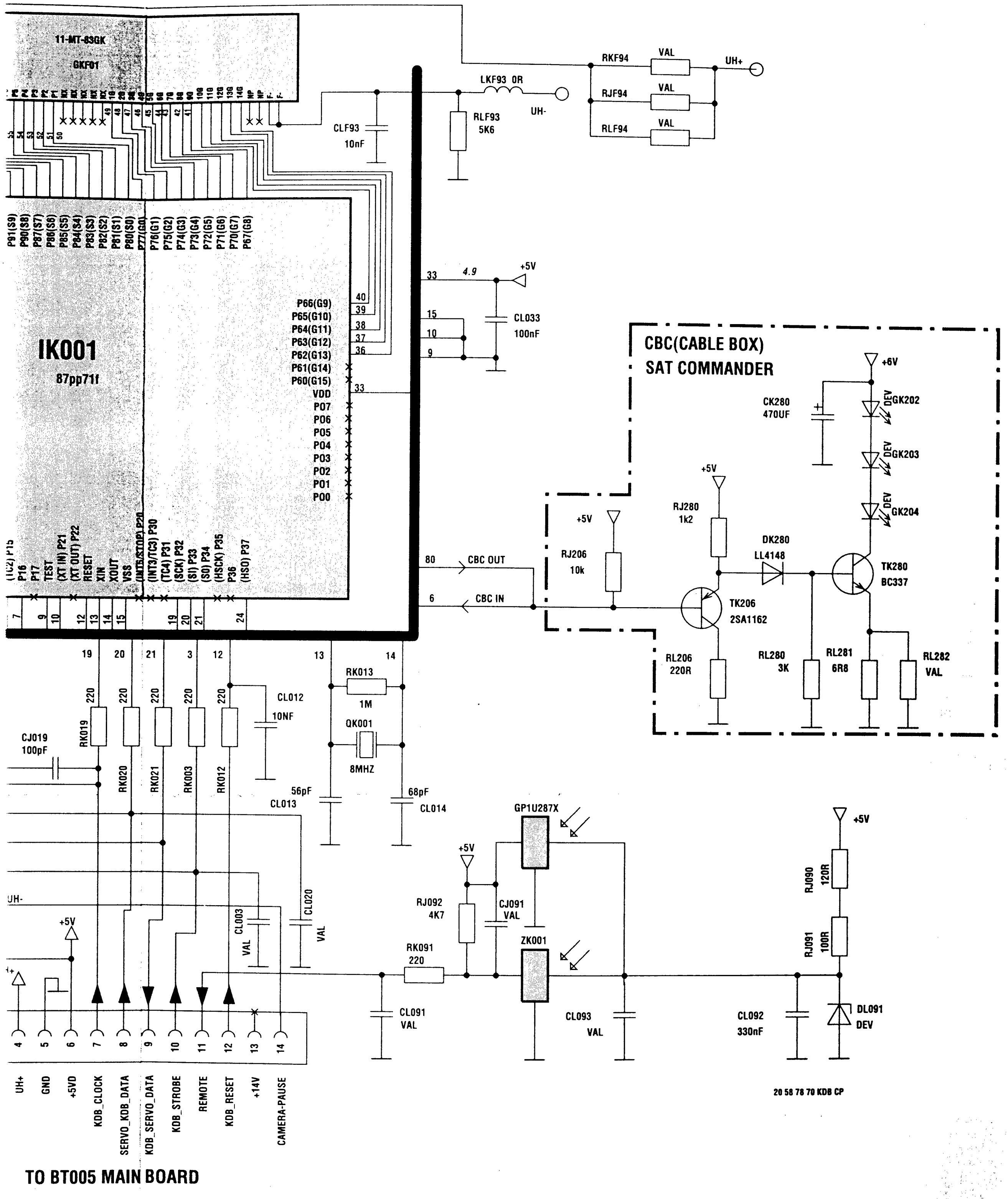
TOCOM	DESCRIPTION	CAM. PAUSE	CBC	I+	FAV	SK001-SK008	S/W
20587860	KDB R5 CP1	-	-	-	-	HIFI & MONO	N6T

Component side -Côté composants - componenti - Lado co


PCB KDB R5 CP
20695140.00
JJ014
JJ016
JJ015
JJ005
JJ006

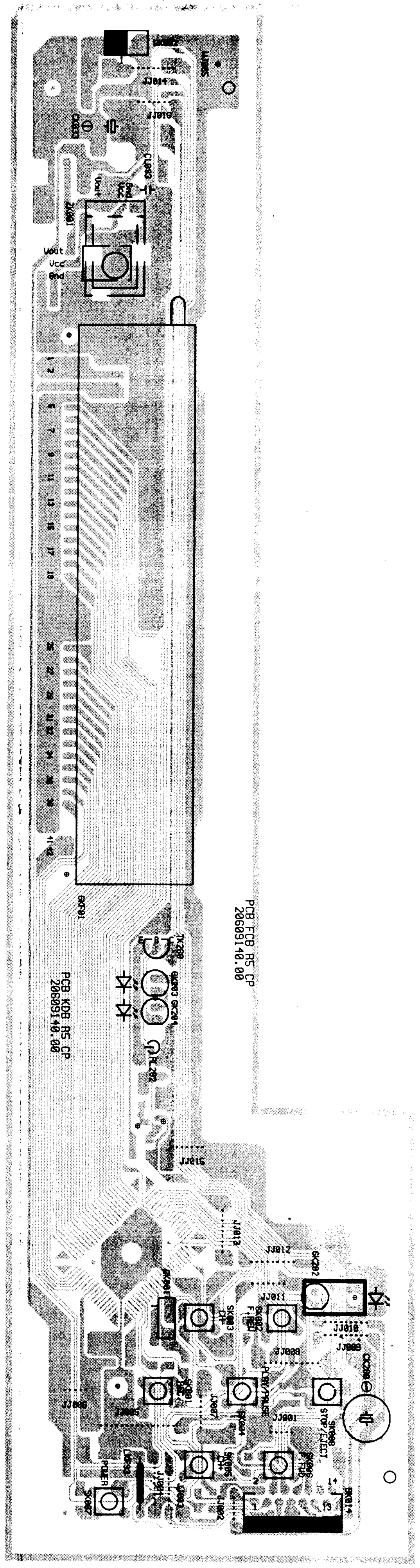
ꜰFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY -

SQUEMA



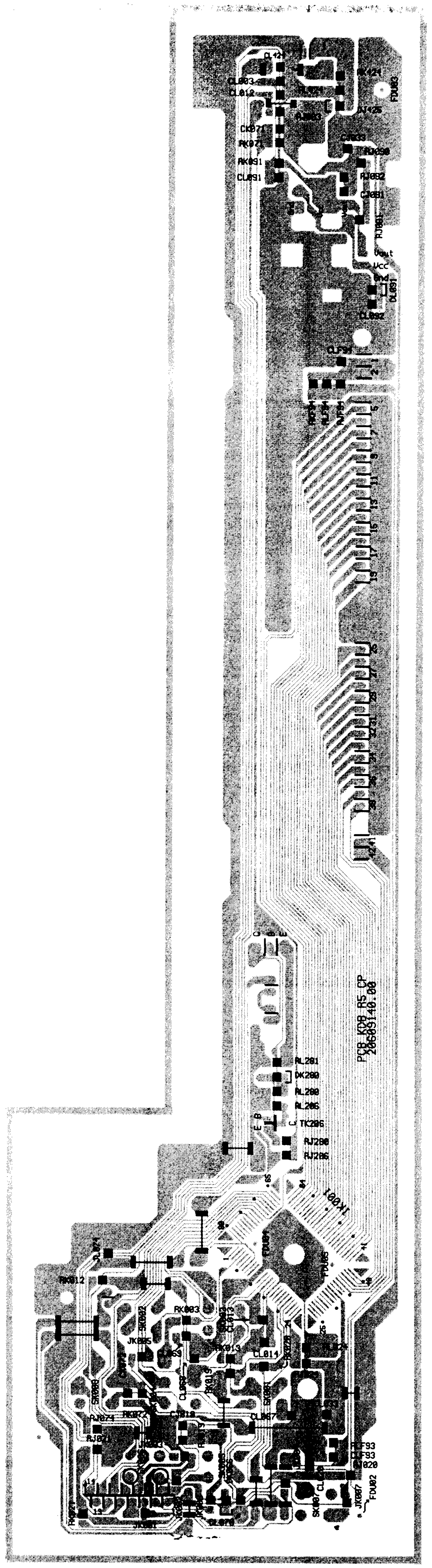
11-MT-03GK
GKF01
IK001
87pp71f
P66(G9)
P65(G10)
P64(G11)
P63(G12)
P62(G13)
P61(G14)
P60(G15)
VDD
P07
P06
P05
P04
P03
P02
P01
P00
TEST
RESET
XIN
XOUT
VSS
RKF94
RJF94
RLF94
VAL
UH+
UH-
LKF93 0R
RLF93
5K6
CLF93
10nF
+5V
4.9
CL033
100nF
CBC(CABLE BOX)
SAT COMMANDER
+6V
CK280
470UF
DEV
GK202
GK203
GK204
RJ280
1k2
DK280
LL4148
TK280
BC337
RJ206
10k
TK206
2SA1162
CBC OUT
CBC IN
RL206
220R
RL280
3K
RL281
6R8
RL282
VAL
RK013
1M
QK001
8MHZ
CL012
10NF
CJ019
100pF
RK019
RK020
RK021
RK003
RK012
220
56pF
CL013
68pF
CL014
GP1U287X
RJ092
4K7
CJ091
VAL
ZK001
RK091
220
CL003
CL020
CL091
CL093
CL092
330nF
RJ090
120R
RJ091
100R
DL091
DEV
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
TO BT005 MAIN BOARD
20 58 78 70 KDB CP

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes



PCB FCB R5 CP
20609140.00
PCB KDB R5 CP
20609140.00
Vout
Ucc
Gnd
JJ014
JJ015
JJ012
JJ011
JJ009
JJ008
GK202
POWER
STOP/EJECT

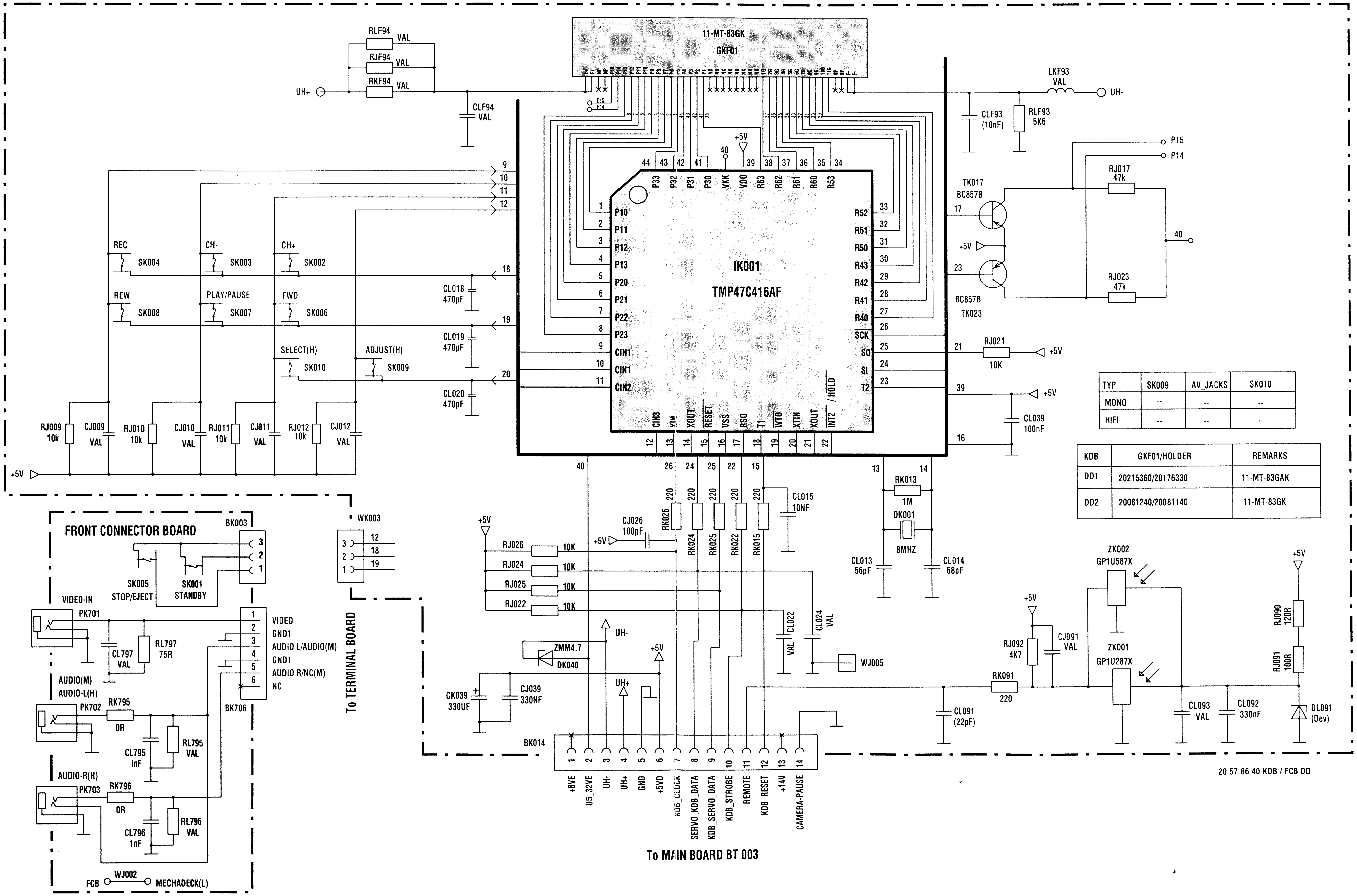
Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre



PCB KDB R5 CP
20609140.00
RL281
DK280
RL280
RL206
TK206
RJ280
RJ206
RK012
RK003
CL014
RLF93
CLF93

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (TELEFUNKEN: T 8006 HIFI)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


11-MT-83GK
GKF01
IK001
TMP47C416AF
RLF94 VAL
RJF94 VAL
RKF94 VAL
UH+
CLF94 VAL
LKF93 VAL
UH-
CLF93 (10nF)
RLF93 5K6
P15
P14
RJ017 47k
TK017 BC857B
+5V
40
RJ023 47k
BC857B TK023
RJ021 10K
+5V
CL039 100nF
REC SK004
CH- SK003
CH+ SK002
REW SK008
PLAY/PAUSE SK007
FWD SK006
SELECT(H) SK010
ADJUST(H) SK009
CL018 470pF
CL019 470pF
CL020 470pF
RJ009 10k
CJ009 VAL
RJ010 10k
CJ010 VAL
RJ011 10k
CJ011 VAL
RJ012 10k
CJ012 VAL
+5V
P33 P32 P31 P30 VKK VDD R63 R62 R61 R60 R53
P10 P11 P12 P13 P20 P21 P22 P23 CIN1 CIN1 CIN2
R52 R51 R50 R43 R42 R41 R40 SCK SO SI T2
CIN3 XIN XOUT RESET VSS RSO T1 WTO XTIN XOUT INT2 /HOLD
FRONT CONNECTOR BOARD
BK003
SK005 STOP/EJECT
SK001 STANDBY
WK003
To TERMINAL BOARD
VIDEO-IN PK701
CL797 VAL
RL797 75R
AUDIO(M)
AUDIO-L(H) PK702
RK795 0R
CL795 1nF
RL795 VAL
AUDIO-R(H) PK703
RK796 0R
CL796 1nF
RL796 VAL
BK706
VIDEO
GND1
AUDIO L/AUDIO(M)
GND1
AUDIO R/NC(M)
NC
FCB
WJ002
MECHADECK(L)
RJ026 10K
RJ024 10K
RJ025 10K
RJ022 10K
CJ026 100pF
RK026 220
RK024 220
RK025 220
RK022 220
RK015 220
CL015 10NF
RK013 1M
QK001 8MHZ
CL013 56pF
CL014 68pF
ZMM4.7 DK040
UH-
UH+
CK039 330UF
CJ039 330NF
CL022 VAL
CL024 VAL
WJ005
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
To MAIN BOARD BT 003
ZK002 GP1U587X
ZK001 GP1U287X
RJ092 4K7
CJ091 VAL
RK091 220
CL091 (22pF)
CL093 VAL
CL092 330nF
RJ090 120R
RJ091 100R
DL091 (Dev)
20 57 86 40 KDB / FCB DD

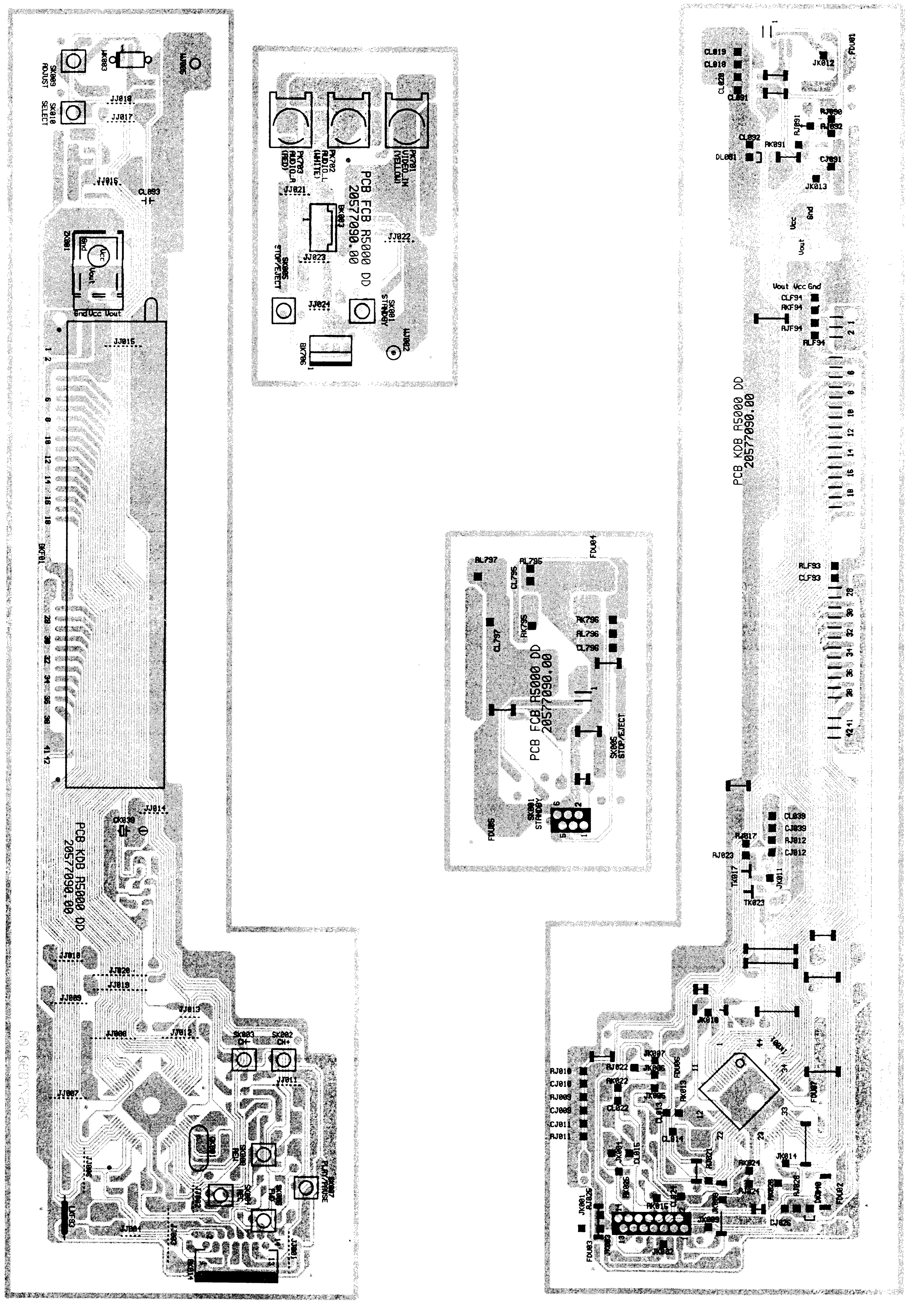
TYP	SK009	AV_JACKS	SK010
MONO	--	--	--
HIFI	--	--	--

KDB	GKF01/HOLDER	REMARKS
DD1	20215360/20176330	11-MT-83GAK
DD2	20081240/20081140	11-MT-83GK

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (TELEFUNKEN : T 8006 HIFI)

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre

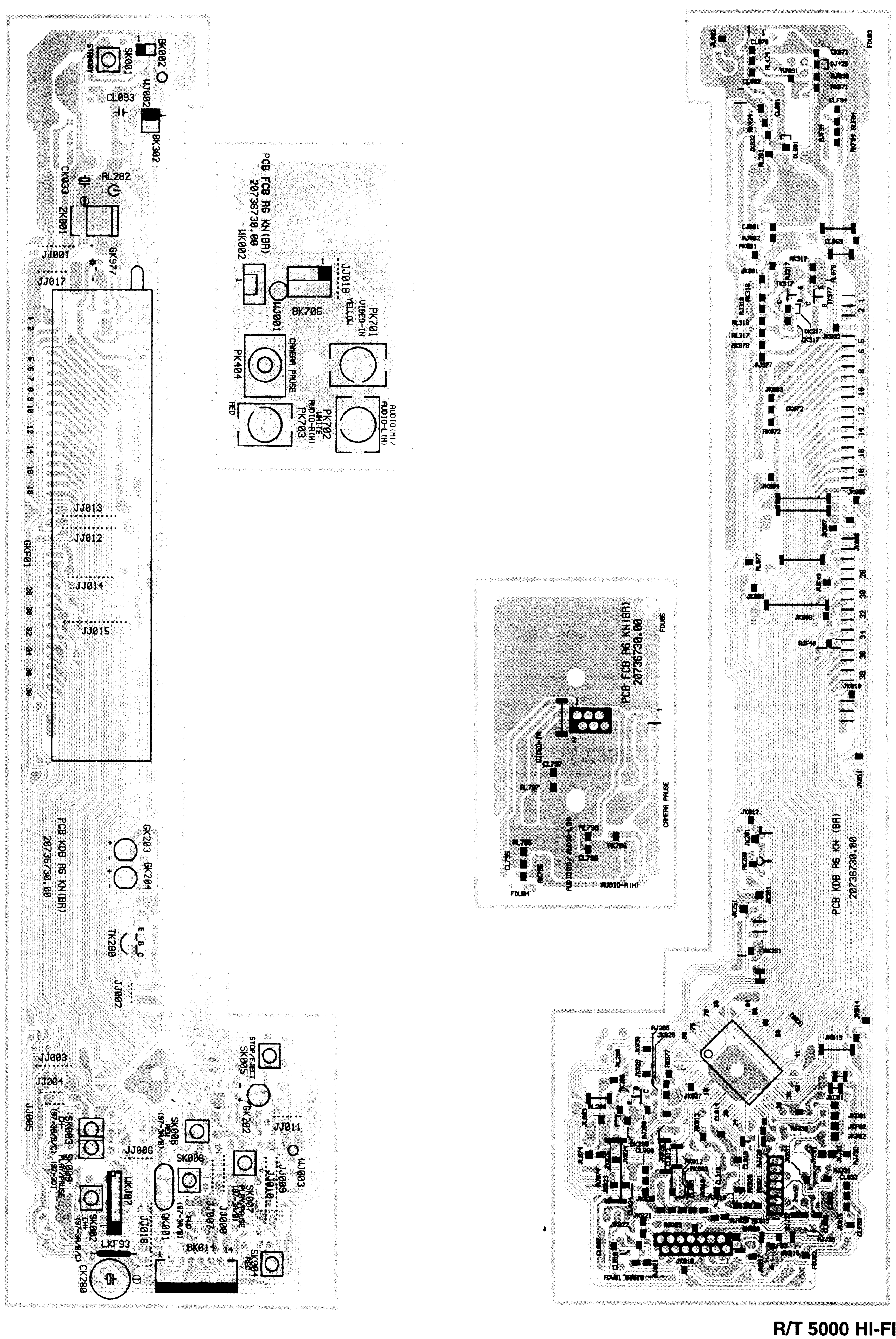


SK005 PDUST SELECT
SK010
PK703 AUDIO-R (RED)
PK702 AUDIO-L (WHITE)
PK701 VIDEO-IN (YELLOW)
PCB FCB R5000 DD 20577090.00
SK006 STOP/EJECT
SK001 STANDBY
PCB KDB R5000 DD 20577090.00
Gnd Vcc Vout
CH+
CH-
PLAY/PAUSE

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (SABA : VR 8083 H)

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

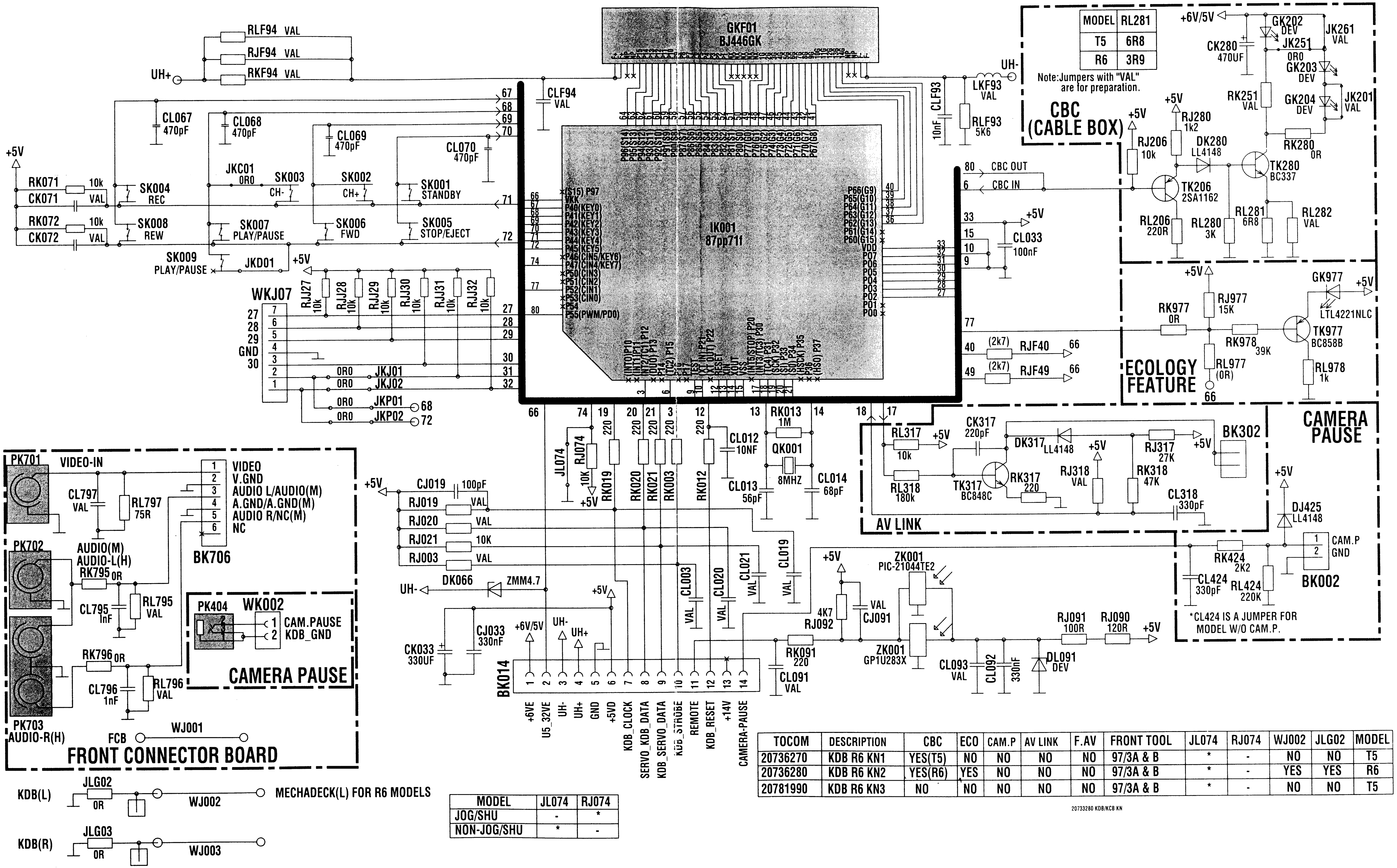
Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre



PCB FCB R6 KN(BR) 20736730.00
PK701 VIDEO-IN YELLOW
PK702 AUDIO-R(H) WHITE
PK703 AUDIO(M)/ AUDIO-L(H)
PK404 CAMERA PAUSE RED
BK706
PCB KDB R6 KN(BR) 20730730.00
PCB KDB R6 KN (BR) 20736730.00
STOP/EJECT SK005
CAMERA PAUSE

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (SABA: VR 6083 H)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


GKF01
BJ446GK
IK001
87pp71I
RLF94 VAL
RJF94 VAL
RKF94 VAL
UH+
UH-
CLF94 VAL
LKF93 VAL
CLF93 10nF
RLF93 5K6
CL067 470pF
CL068 470pF
CL069 470pF
CL070 470pF
+5V
RK071 10k
CK071 VAL
RK072 10k
CK072 VAL
JKC01 0R0
SK004 REC
SK003 CH-
SK002 CH+
SK001 STANDBY
SK008 REW
SK007 PLAY/PAUSE
SK006 FWD
SK005 STOP/EJECT
SK009 PLAY/PAUSE
JKD01
WKJ07
RJ27 10k
RJ28 10k
RJ29 10k
RJ30 10k
RJ31 10k
RJ32 10k
GND
JKJ01 0R0
JKJ02 0R0
JKP01 0R0
JKP02 0R0
CL033 100nF
CBC OUT
CBC IN
RJF40 (2k7)
RJF49 (2k7)
CBC (CABLE BOX)
Note: Jumpers with "VAL" are for preparation.
+6V/5V
CK280 470UF
GK202 DEV
JK251 0R0
JK261 VAL
GK203 DEV
GK204 DEV
JK201 VAL
RK251 VAL
RJ280 1k2
RJ206 10k
DK280 LL4148
RK280 0R
TK280 BC337
TK206 2SA1162
RL206 220R
RL280 3K
RL281 6R8
RL282 VAL
ECOLOGY FEATURE
GK977
LTL4221NLC
RK977 0R
RJ977 15K
RK978 39K
TK977 BC858B
RL977 (0R)
RL978 1k
CAMERA PAUSE
AV LINK
CK317 220pF
RL317 10k
DK317 LL4148
RJ317 27K
BK302
RL318 180k
TK317 BC848C
RK317 220
RJ318 VAL
RK318 47K
CL318 330pF
DJ425 LL4148
BK002
CAM.P
RK424 2K2
CL424 330pF
RL424 220K
*CL424 IS A JUMPER FOR MODEL W/O CAM.P.
JL074
RJ074 10K
RK019 220
RK020 220
RK021 220
RK003 220
RK012 220
CL012 10NF
RK013 1M
QK001 8MHZ
CL013 56pF
CL014 68pF
CJ019 100pF
RJ019 VAL
RJ020 VAL
RJ021 10K
RJ003 VAL
DK066 ZMM4.7
CK033 330UF
CJ033 330nF
CL003 VAL
CL020 VAL
CL021 VAL
CL019 VAL
ZK001 PIC-21044TE2
RJ092 4K7
CJ091 VAL
ZK001 GP1U283X
RK091 220
CL091 VAL
CL093 VAL
CL092 33nF
DL091 DEV
RJ091 100R
RJ090 120R
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
PK701 VIDEO-IN
CL797 VAL
RL797 75R
BK706
VIDEO
V.GND
AUDIO L/AUDIO(M)
A.GND/A.GND(M)
AUDIO R/NC(M)
NC
PK702 AUDIO(M) AUDIO-L(H)
RK795 0R
CL795 1nF
RL795 VAL
RK796 0R
CL796 1nF
RL796 VAL
PK703 AUDIO-R(H)
PK404
WK002
CAM.PAUSE
KDB_GND
CAMERA PAUSE
FCB
WJ001
FRONT CONNECTOR BOARD
KDB(L)
JLG02 0R
WJ002
MECHADECK(L) FOR R6 MODELS
KDB(R)
JLG03 0R
WJ003

MODEL	RL281
T5	6R8
R6	3R9

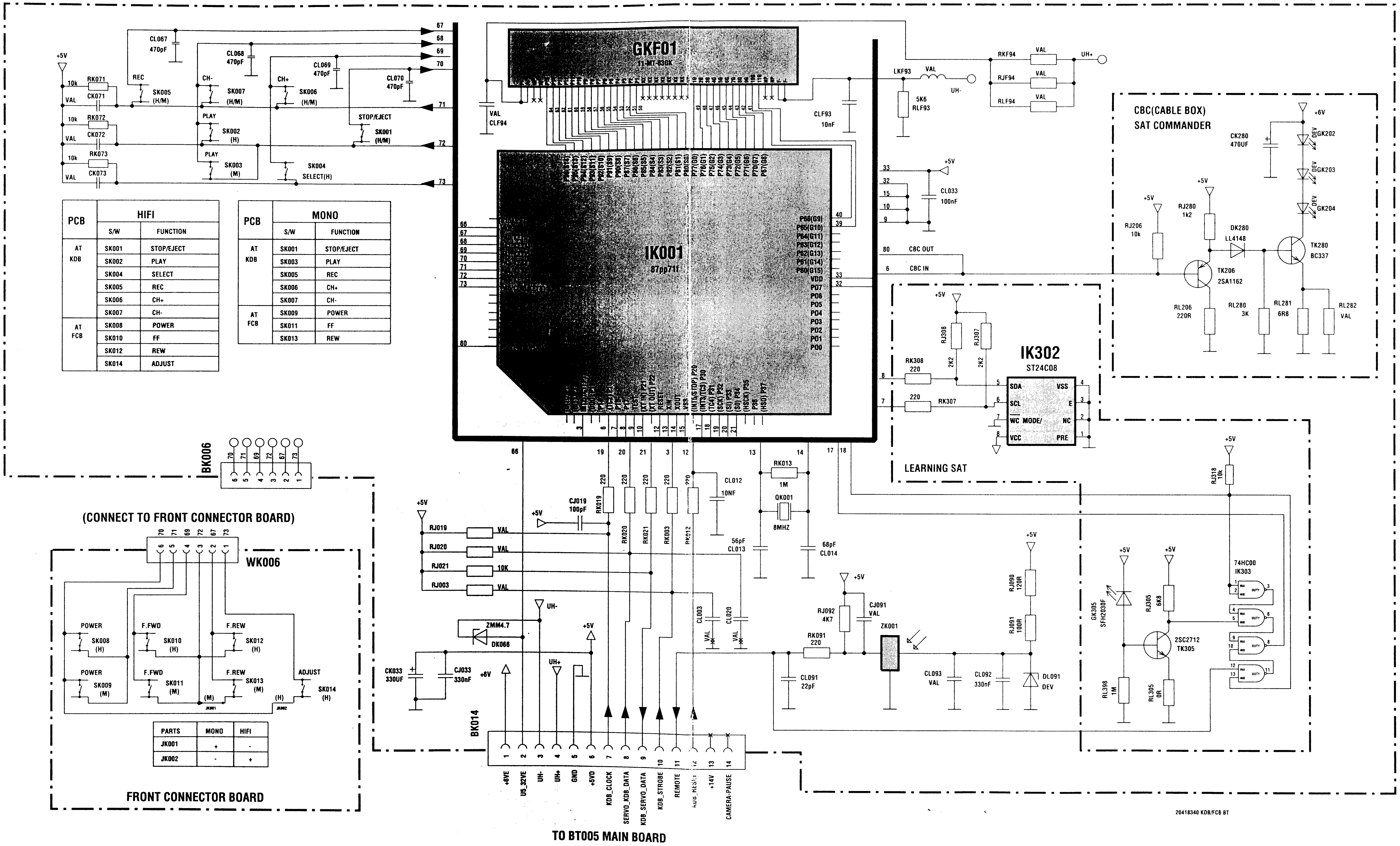
MODEL	JL074	RJ074
JOG/SHU	-	*
NON-JOG/SHU	*	-

TOCOM	DESCRIPTION	CBC	ECO	CAM.P	AV LINK	F.AV	FRONT TOOL	JL074	RJ074	WJ002	JLG02	MODEL
20736270	KDB R6 KN1	YES(T5)	NO	NO	NO	NO	97/3A & B	*	-	NO	NO	T5
20736280	KDB R6 KN2	YES(R6)	YES	NO	NO	NO	97/3A & B	*	-	YES	YES	R6
20781990	KDB R6 KN3	NO	NO	NO	NO	NO	97/3A & B	*	-	NO	NO	T5

20733280 KDB/KCB KN

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (SABA: VR 6081)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


GKF01
11-MT-83GK
IK001
87pp71f
IK302
ST24C08
CBC(CABLE BOX)
SAT COMMANDER
LEARNING SAT
74HC00
IK303
BK006
(CONNECT TO FRONT CONNECTOR BOARD)
WK006
FRONT CONNECTOR BOARD
BK014
TO BT005 MAIN BOARD
+5VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
SK001 STOP/EJECT (H/M)
SK002 (H)
SK003 (M)
SK004 SELECT(H)
SK005 (H/M)
SK006 (H/M)
SK007 (H/M)
SK008 (H)
SK009 (M)
SK010 (H)
SK011 (M)
SK012 (H)
SK013 (M)
SK014 (H)
POWER
F.FWD
F.REW
ADJUST
CBC OUT
CBC IN
ZK001
QK001 8MHZ
DK066 ZMM4.7
TK206 2SA1162
TK280 BC337
TK305 2SC2712
GK305 SFH2030F
20418340 KDB/FCB BT

PCB	HIFI	
	S/W	FUNCTION
AT KDB	SK001	STOP/EJECT
	SK002	PLAY
	SK004	SELECT
	SK005	REC
	SK006	CH+
	SK007	CH-
AT FCB	SK008	POWER
	SK010	FF
	SK012	REW
	SK014	ADJUST

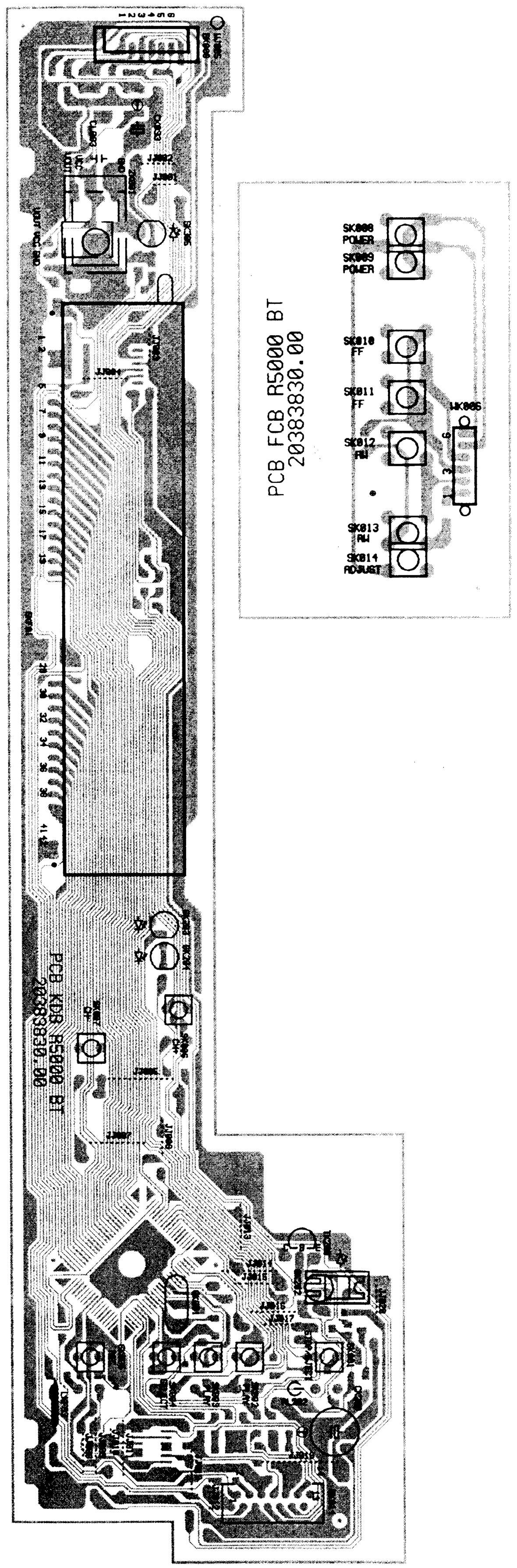
PCB	MONO	
	S/W	FUNCTION
AT KDB	SK001	STOP/EJECT
	SK003	PLAY
	SK005	REC
	SK006	CH+
	SK007	CH-
AT FCB	SK009	POWER
	SK011	FF
	SK013	REW

PARTS	MONO	HIFI
JK001	+	-
JK002	-	+

TOCOM NO.	DESCRIPTION	CBC	L.SAT
20383890	KDB/FCB R5 BT1/BT1	+	-
20399450	KDB/FCB R5 BT6/BT2	-	-
20443060	KDB/FCB R5 BT8/BT1	-	-

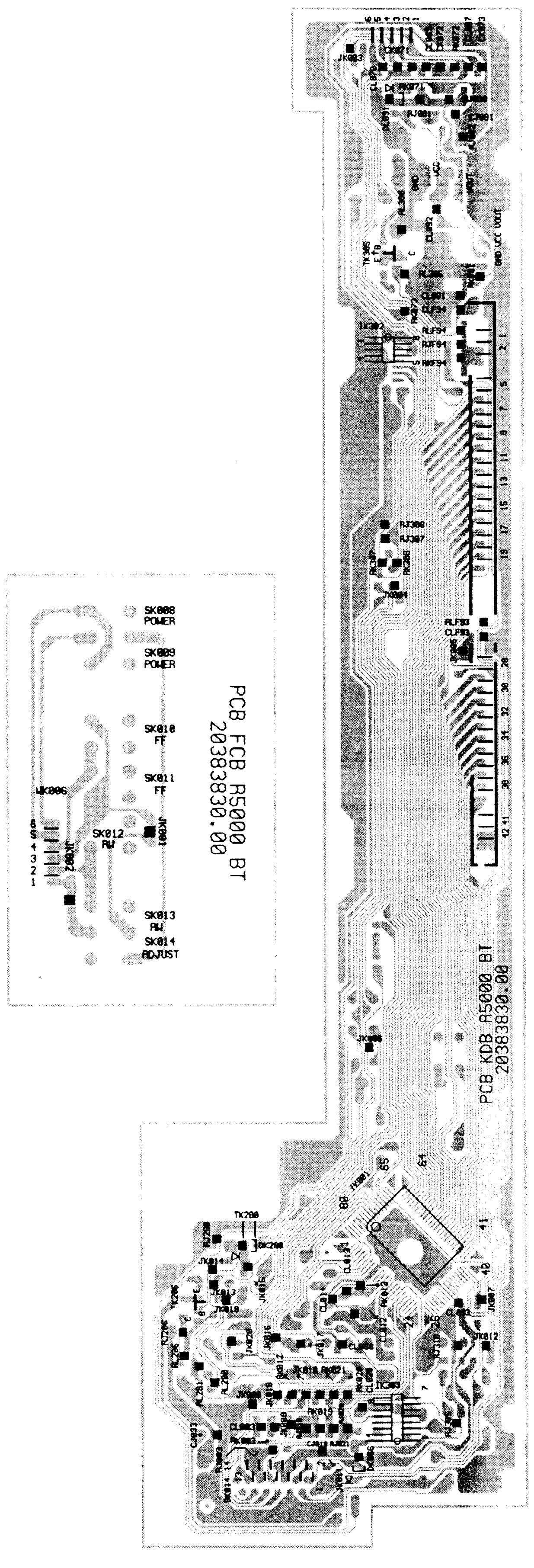
KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR **(SABA : VR 6081)**

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes



PCB FCB R5000 BT
20383830.00
SK008 POWER
SK009 POWER
SK010 FF
SK011 FF
SK012 RW
SK013 RW
SK014 ADJUST
WK006
PCB KDB R5000 BT
20383830.00

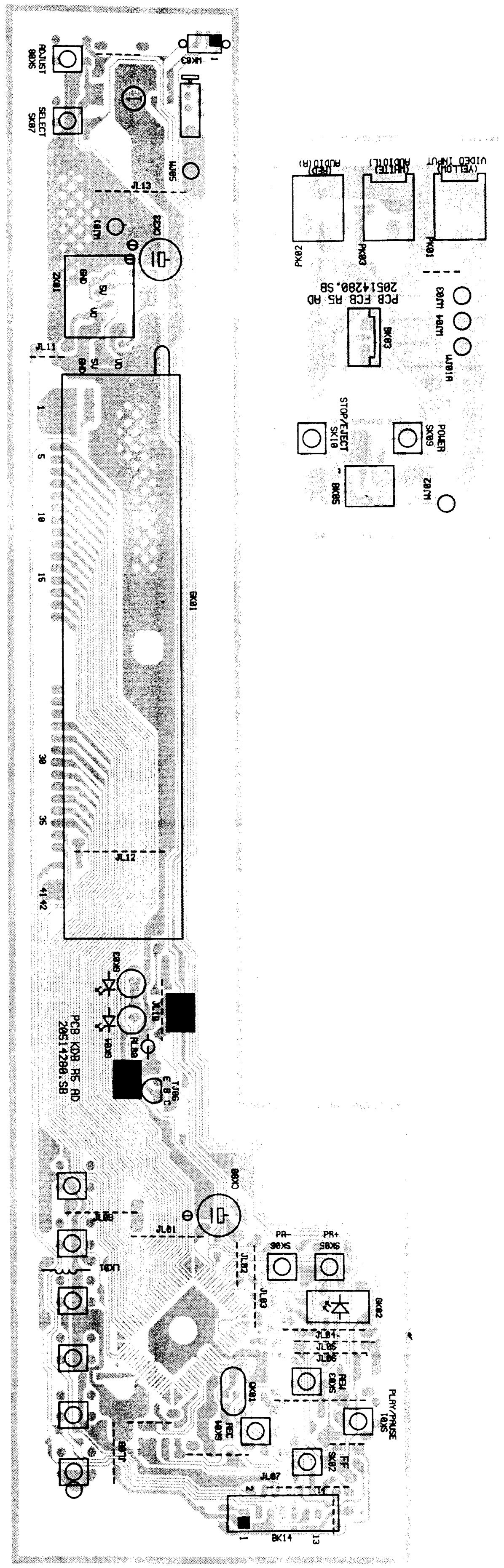
Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre



SK008 POWER
SK009 POWER
SK010 FF
SK011 FF
SK012 RW
SK013 RW
SK014 ADJUST
WK006
PCB FCB R5000 BT
20383830.00
PCB KDB R5000 BT
20383830.00
TK200

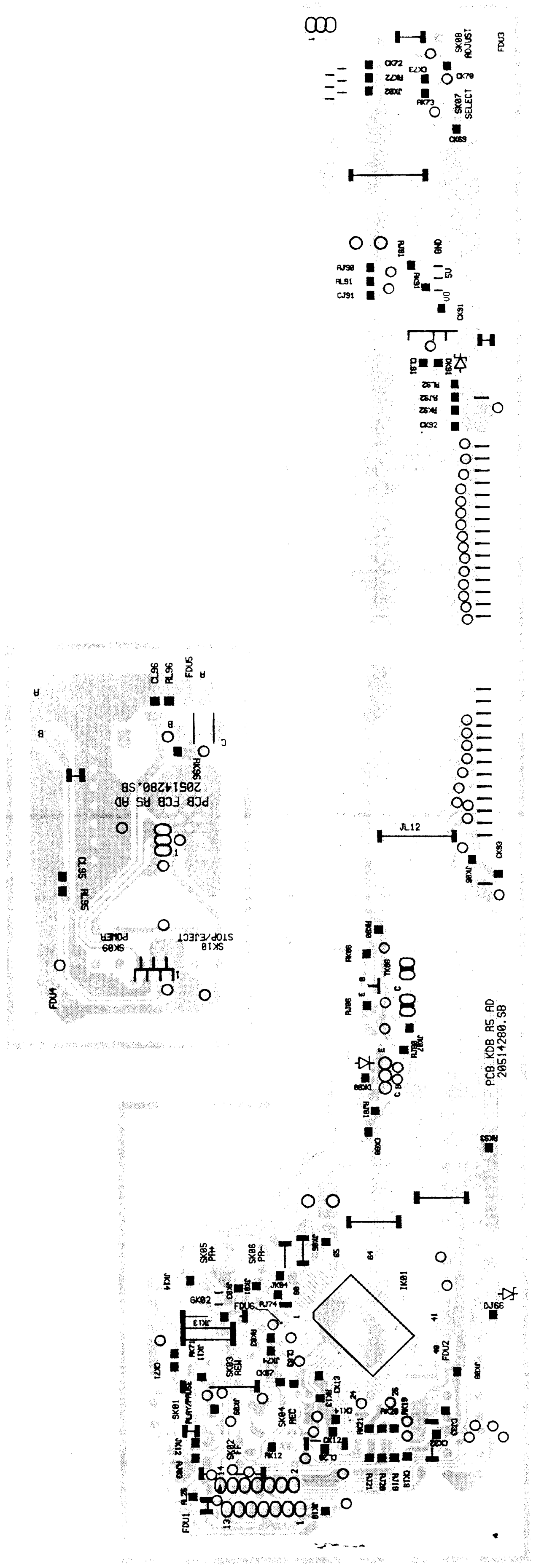
KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR **(THOMSON: VPR 6600 N)**

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes



ADJUST SK08
SELECT SK07
JL13
JL11
JL12
VIDEO INPUT (YELLOW)
AUDIO(L) (WHITE)
AUDIO(R) (RED)
PK01
PK02
PK03
PCB FCB R5 RD
20514280.SB
STOP/EJECT SK10
POWER SK09
PCB KDB R5 RD
20514280.SB
PR- SK05
PR+ SK06
PLAY/PAUSE SK01
FF SK02
JL01
JL07
BK14

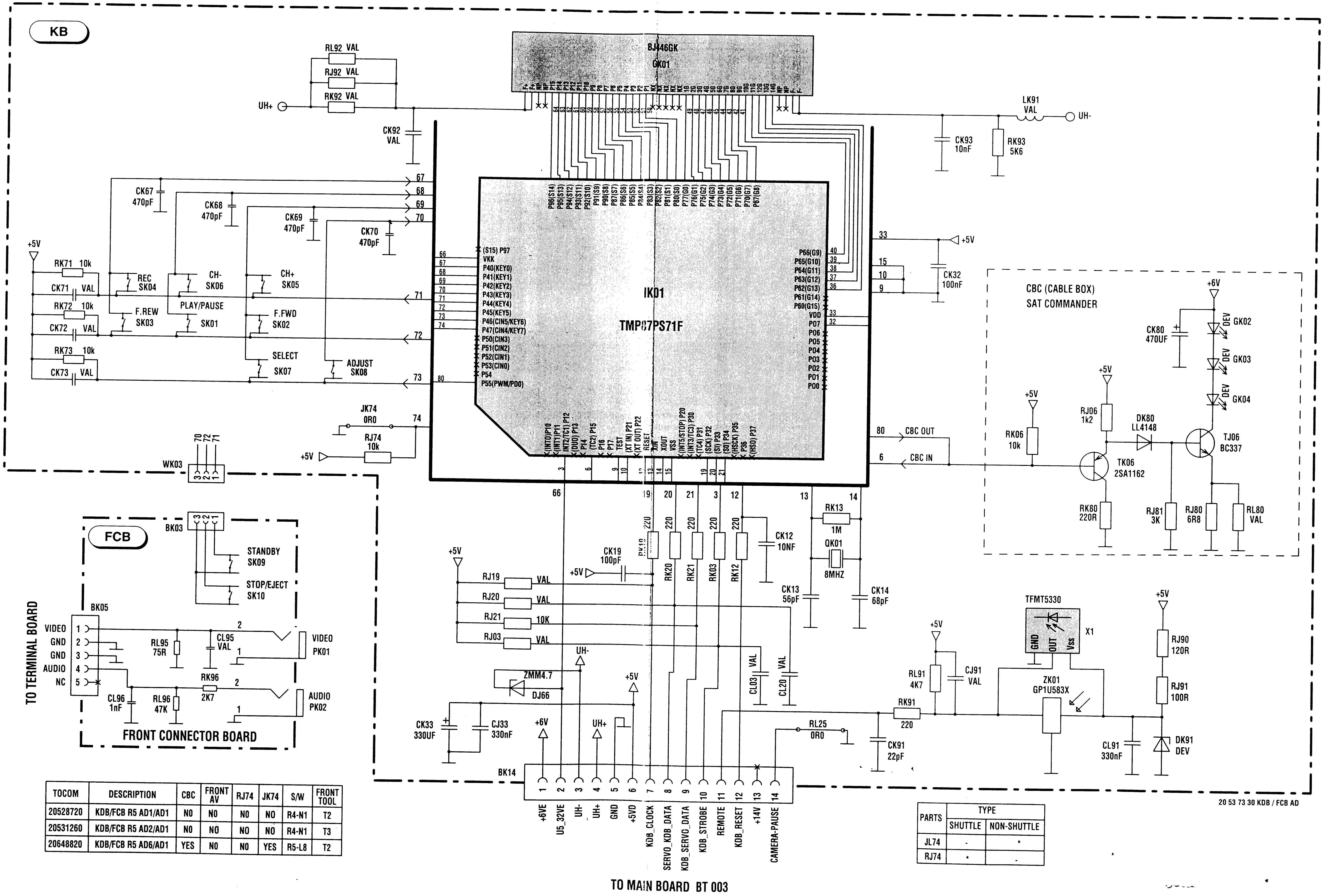
Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre



SK08 ADJUST
SK07 SELECT
PCB FCB R5 RD
20514280.SB
SK09 POWER
SK10 STOP/EJECT
JL12
PCB KDB R5 RD
20514280.SB
SK05 PR-
SK06 PR+

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (THOMSON: VPH 6600 N)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

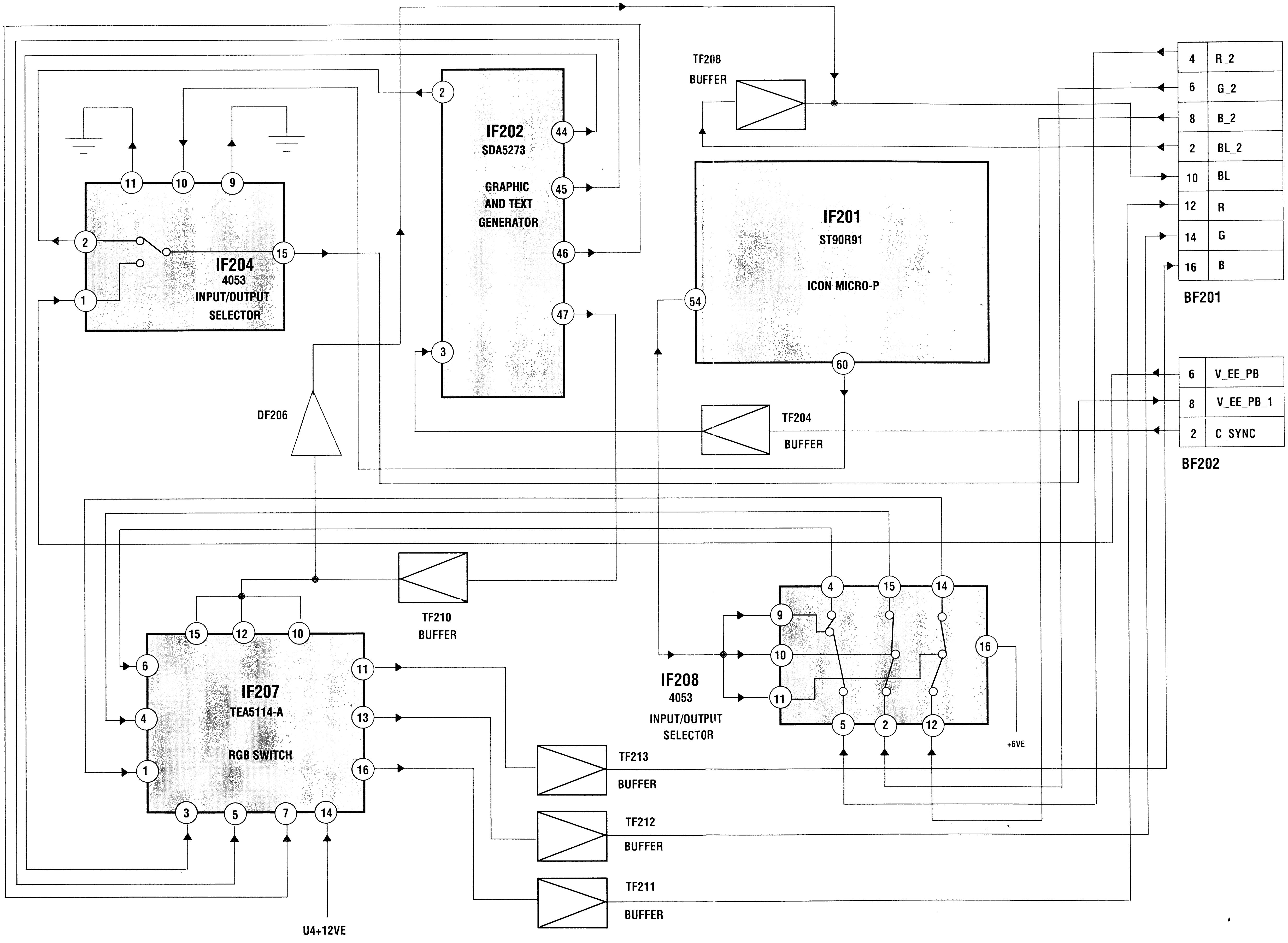

KB
BJ446GK
GK01
RL92 VAL
RJ92 VAL
RK92 VAL
UH+
CK92 VAL
LK91 VAL
UH-
CK93 10nF
RK93 5K6
CK67 470pF
CK68 470pF
CK69 470pF
CK70 470pF
+5V
RK71 10k
CK71 VAL
RK72 10k
CK72 VAL
RK73 10k
CK73 VAL
REC SK04
CH- SK06
CH+ SK05
F.REW SK03
PLAY/PAUSE SK01
F.FWD SK02
SELECT SK07
ADJUST SK08
JK74 0R0
RJ74 10k
WK03
IK01
TMP87PS71F
(S15) P97
VKK
P40(KEY0)
P41(KEY1)
P42(KEY2)
P43(KEY3)
P44(KEY4)
P45(KEY5)
P46(CIN5/KEY6)
P47(CIN4/KEY7)
P50(CIN3)
P51(CIN2)
P52(CIN1)
P53(CIN0)
P54
P55(PWM/PD0)
P66(G9)
P65(G10)
P64(G11)
P63(G12)
P62(G13)
P61(G14)
P60(G15)
VDD
P07
P06
P05
P04
P03
P02
P01
P00
CK32 100nF
CBC OUT
CBC IN
CBC (CABLE BOX)
SAT COMMANDER
+6V
CK80 470UF
GK02
GK03
GK04
DEV
RJ06 1k2
DK80 LL4148
TJ06 BC337
RK06 10k
TK06 2SA1162
RK80 220R
RJ81 3K
RJ80 6R8
RL80 VAL
FCB
BK03
STANDBY SK09
STOP/EJECT SK10
BK05
TO TERMINAL BOARD
VIDEO
GND
GND
AUDIO
NC
RL95 75R
CL95 VAL
CL96 1nF
RL96 47K
RK96 2K7
VIDEO PK01
AUDIO PK02
FRONT CONNECTOR BOARD
RJ19 VAL
RJ20 VAL
RJ21 10K
RJ03 VAL
CK19 100pF
RK19 220
RK20 220
RK21 220
RK03 220
RK12 220
CK12 10NF
RK13 1M
QK01 8MHZ
CK13 56pF
CK14 68pF
ZMM4.7
DJ66
CL03 VAL
CL20 VAL
CK33 330UF
CJ33 330nF
RL25 0R0
TFMT5330
GND OUT Vss
X1
RL91 4K7
CJ91 VAL
RK91 220
CK91 22pF
ZK01 GP1U583X
RJ90 120R
RJ91 100R
CL91 330nF
DK91 DEV
BK14
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
TO MAIN BOARD BT 003
20 53 73 30 KDB / FCB AD

TOCOM	DESCRIPTION	CBC	FRONT AV	RJ74	JK74	S/W	FRONT TOOL
20528720	KDB/FCB R5 AD1/AD1	NO	NO	NO	NO	R4-N1	T2
20531260	KDB/FCB R5 AD2/AD1	NO	NO	NO	NO	R4-N1	T3
20648820	KDB/FCB R5 AD6/AD1	YES	NO	NO	YES	R5-L8	T2

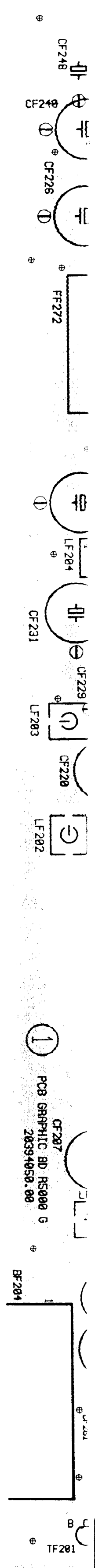
PARTS	TYPE	
	SHUTTLE	NON-SHUTTLE
JL74	-	*
RJ74	*	-

GRAPHIC BOARD (ICONS) - PLATINE GRAPHIQUE (ICONES) - LEITERPLATTE ZEICHENSATZEINBLENDUNG - PIASTRA GRAFICO - PLATINA AGRAFICA

BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBILD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES

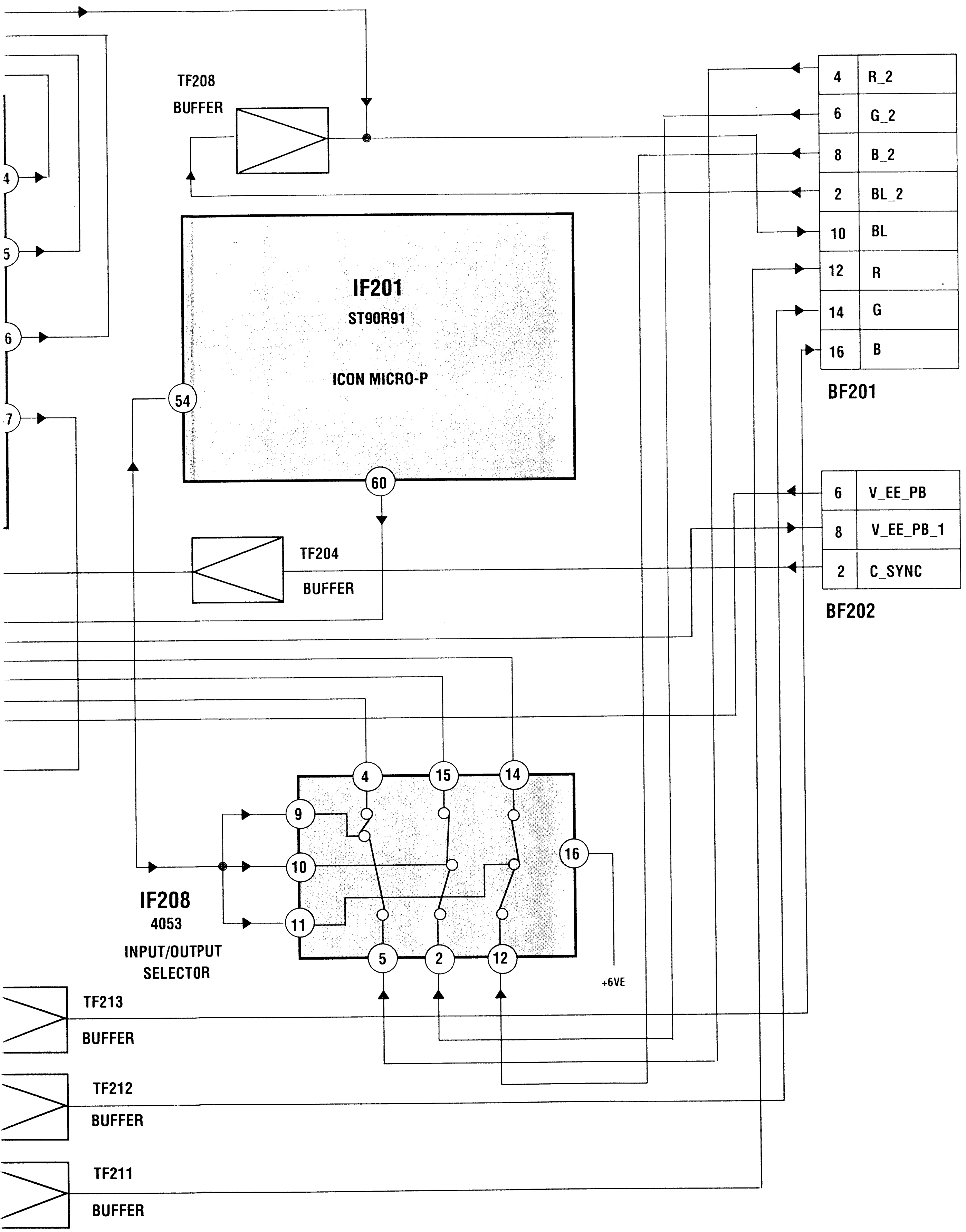

TF208
BUFFER
IF202
SDA5273
GRAPHIC
AND TEXT
GENERATOR
2
44
45
46
47
3
IF204
4053
INPUT/OUTPUT
SELECTOR
11
10
9
2
1
15
IF201
ST90R91
ICON MICRO-P
54
60
4 R_2
6 G_2
8 B_2
2 BL_2
10 BL
12 R
14 G
16 B
BF201
6 V_EE_PB
8 V_EE_PB_1
2 C_SYNC
BF202
DF206
TF204
BUFFER
TF210
BUFFER
IF207
TEA5114-A
RGB SWITCH
15
12
10
6
4
1
11
13
16
3
5
7
14
U4+12VE
IF208
4053
INPUT/OUTPUT
SELECTOR
4
15
14
9
10
11
16
5
2
12
+6VE
TF213
BUFFER
TF212
BUFFER
TF211
BUFFER

Component side -Côté
compone

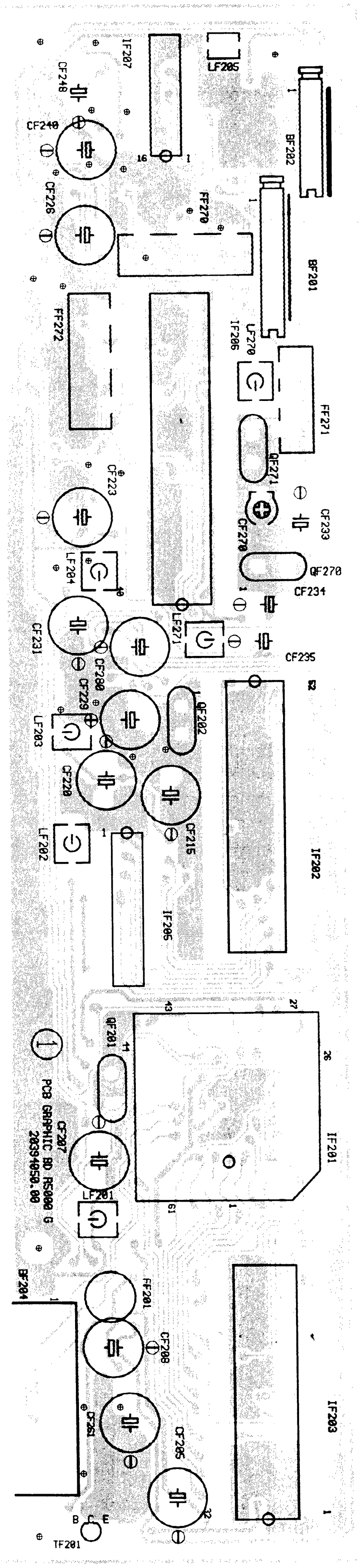

CF248
CF240
CF226
FF272
LF204
CF231
CF229
LF203
CF220
LF202
1
CF207
PCB GRAPHIC BD R5000 G
BF204
TF201

LEITERPLATTE ZEICHENSATZEINBLENDUNG - PIASTRA GRAFICO - PLATINA GRAFICA

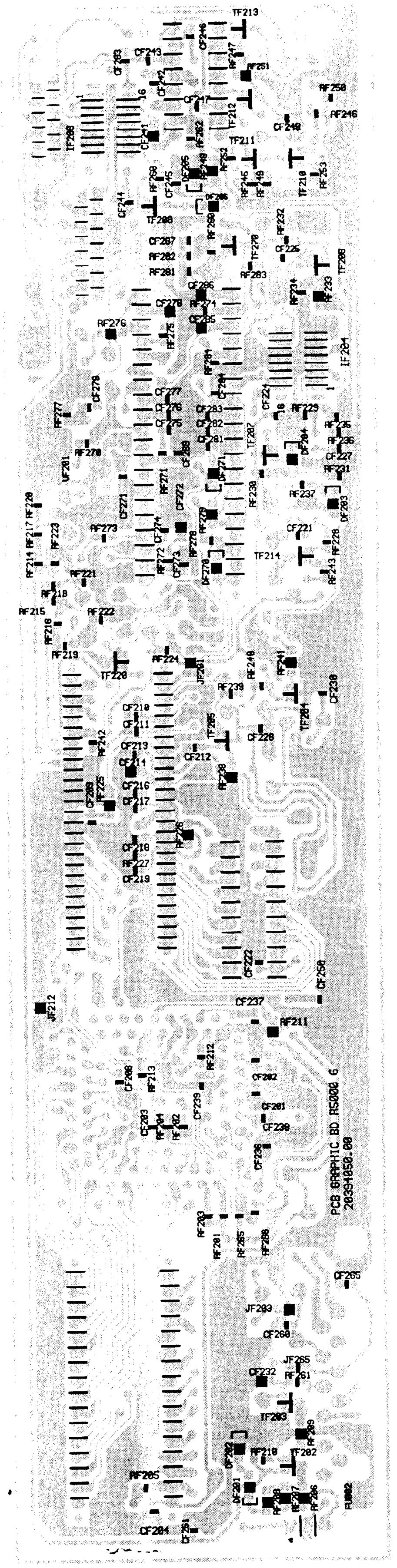
MA A BLOCCHI - ESQUEMA DE BLOQUES


TF208
BUFFER
IF201
ST90R91
ICON MICRO-P
54
60
4 R_2
6 G_2
8 B_2
2 BL_2
10 BL
12 R
14 G
16 B
BF201
6 V_EE_PB
8 V_EE_PB_1
2 C_SYNC
BF202
TF204
BUFFER
IF208
4053
INPUT/OUTPUT
SELECTOR
4
15
14
9
10
11
16
5
2
12
+6VE
TF213
BUFFER
TF212
BUFFER
TF211
BUFFER

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

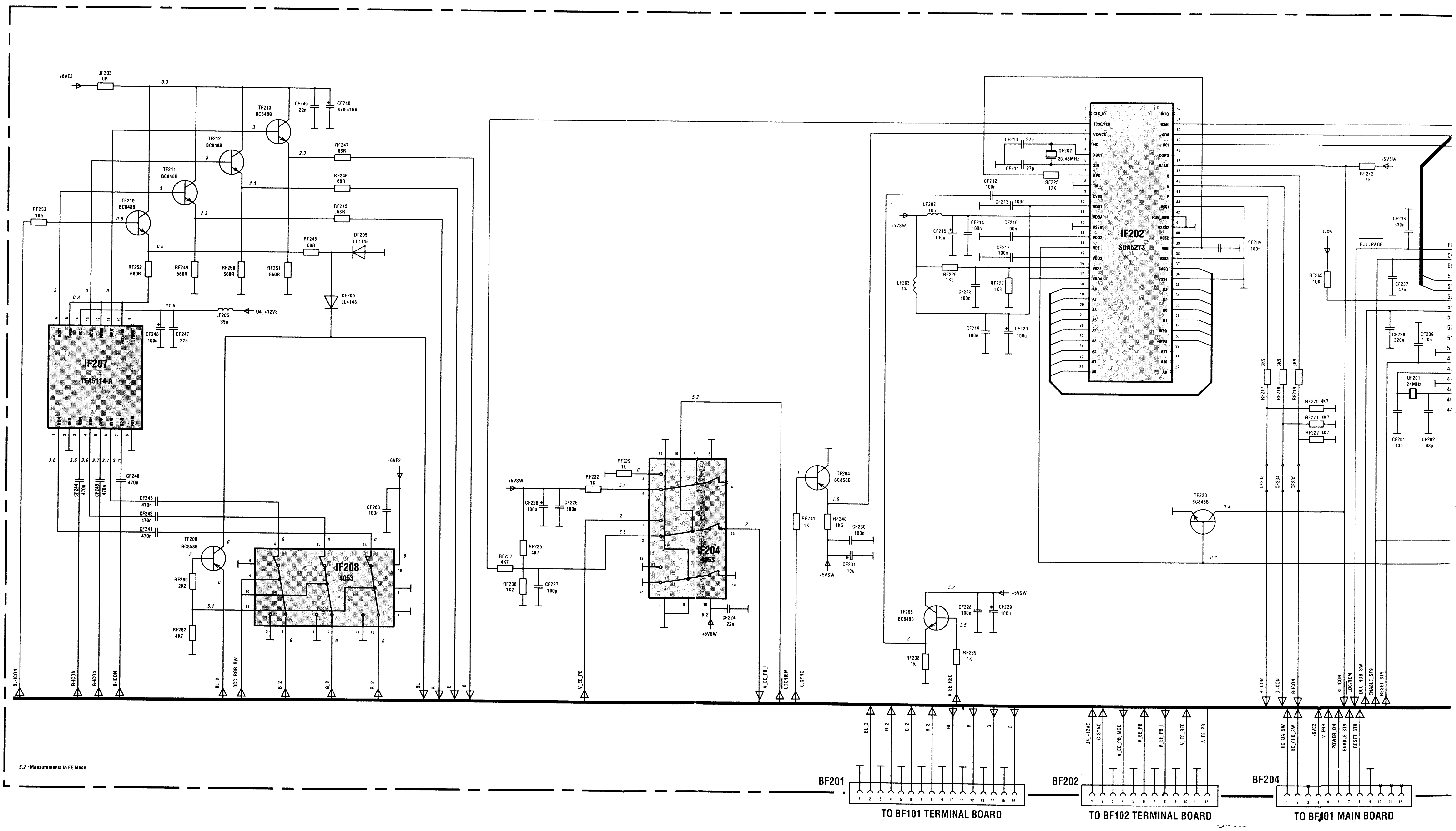

IF207
LF205
BF202
BF201
FF270
FF272
FF271
IF202
IF206
IF201
IF203
BF204
TF201
PCB GRAPHIC BD RS000 G
20394050.00

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


TF213
PCB GRAPHIC BD RS000 G
20394050.00

GRAPHIC BOARD (ICONS) - PLATINE GRAPHIQUE (ICONES) - LEITERPLATTE ZEICHENSATZEINBLENDUNG - PIASTRA GRAFICO - PLATINA AGRAFICA (VPH 6697SE

SCHEMATIC DIAGRAM -SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

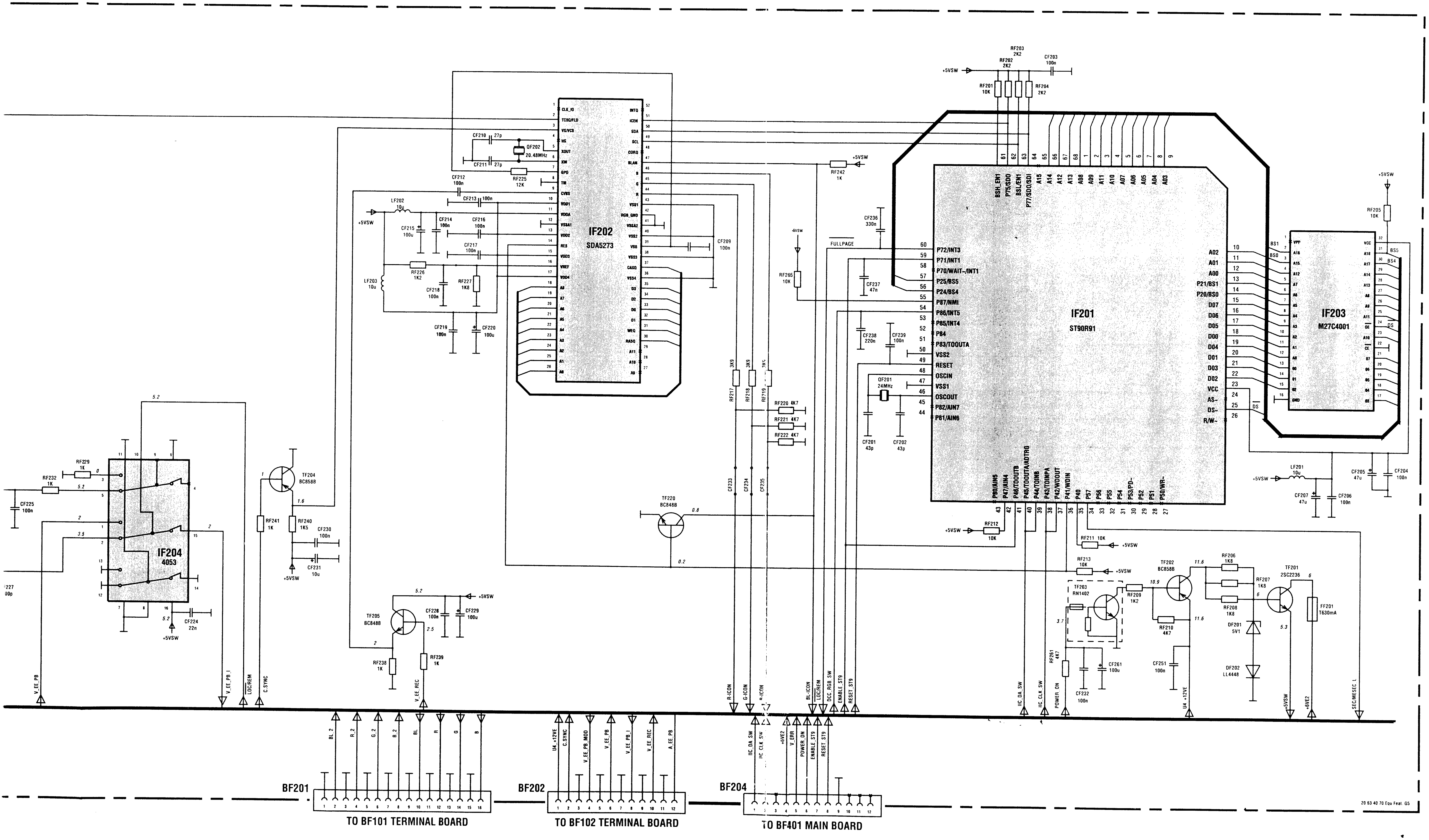


+6VE2
JF203 0R
TF213 BC848B
CF249 22n
CF240 470u/16V
TF212 BC848B
TF211 BC848B
TF210 BC848B
RF253 1K5
RF247 68R
RF246 68R
RF245 68R
RF248 68R
DF205 LL4148
DF206 LL4148
RF252 680R
RF249 560R
RF250 560R
RF251 560R
LF205 39u
U4_+12VE
CF248 100u
CF247 22n
IF207
TEA5114-A
CF244 470n
CF245 470n
CF246 470n
CF243 470n
CF242 470n
CF241 470n
CF263 100n
TF208 BC858B
RF260 2K2
RF262 4K7
IF208
4053
BL-ICON
R-ICON
G-ICON
B-ICON
BL_2
DCC_RGB_SW
B_2
G_2
R_2
BL
R
G
B
+5VSW
RF229 1K
RF232 1K
CF226 100u
CF225 100n
RF237 4K7
RF235 4K7
RF236 1K2
CF227 100p
IF204
4053
CF224 22n
V_EE_PB
V_EE_PB_I
LOC/REM
C_SYNC
TF204 BC858B
RF241 1K
RF240 1K5
CF230 100n
CF231 10u
TF205 BC848B
CF228 100n
CF229 100u
RF238 1K
RF239 1K
V_EE_REC
IF202
SDA5273
CF210 27p
CF211 27p
QF202 20.48MHz
RF225 12K
CF212 100n
CF213 100n
LF202 10u
CF215 100u
CF214 100n
CF216 100n
CF217 100n
RF226 1K2
RF227 1K8
LF203 10u
CF218 100n
CF219 100n
CF220 100u
CF209 100n
RF242 1K
RF265 10K
CF236 330n
FULLPAGE
CF237 47n
CF238 220n
CF239 100n
QF201 24MHz
CF201 43p
CF202 43p
RF217 3K9
RF218 3K9
RF219 3K9
RF220 4K7
RF221 4K7
RF222 4K7
CF233
CF234
CF235
TF220 BC848B
IIC_DA_SW
IIC_CLK_SW
+6VE2
V_ERR
POWER_ON
ENABLE_ST9
RESET_ST9
U4_+12VE
C_SYNC
V_EE_PB_MOD
V_EE_PB
V_EE_PB_I
V_EE_REC
A_EE_PB
BF201
BF202
BF204
TO BF101 TERMINAL BOARD
TO BF102 TERMINAL BOARD
TO BF401 MAIN BOARD

5.2 : Measurements in EE Mode

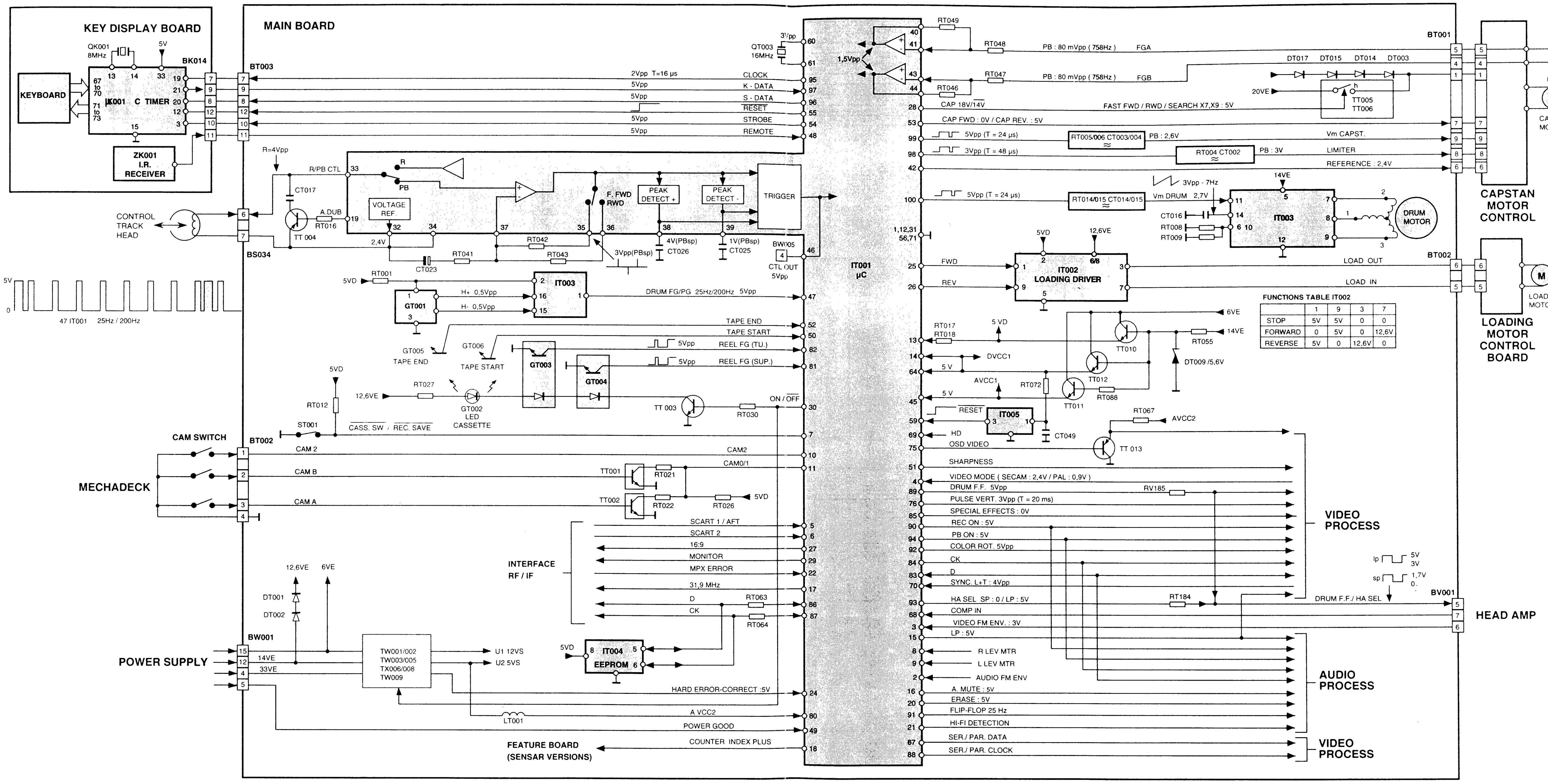
EITERPLATTE ZEICHENSATZEINBLENDUNG - PIASTRA GRAFICO - PLATINA AGRAFICA (VPH 6697SENSAR - VPH 6790)

QUEMA


IF202
SDA5273
IF201
ST90R91
IF203
M27C4001
IF204
4053
QF202
20.48MHz
QF201
24MHz
TF204
BC858B
TF220
BC848B
TF205
BC848B
TF202
BC858B
TF203
RN1402
TF201
2SC2236
FF201
T630mA
DF201
5V1
DF202
LL4448
LF201
LF202
LF203
+5VSW
FULLPAGE
BF201
TO BF101 TERMINAL BOARD
BF202
TO BF102 TERMINAL BOARD
BF204
TO BF401 MAIN BOARD
V_EE_PB
V_EE_PB_I
LOC/REM
C.SYNC
V_EE_REC
R.ICON
G.ICON
B.ICON
BL.ICON
DCC_RGB_SW
ENABLE_ST9
RESET_ST9
IIC_DA_SW
IIC_CLK_SW
POWER_ON
U4_+12VE
+5VE2
SEC/MESEC L
BL_2
R_2
G_2
B_2
BL
R
G
B
C.SYNC
V_EE_PB_MOD
A_EE_PB
V_ERR
20 63 40 70 Equ Feat G5

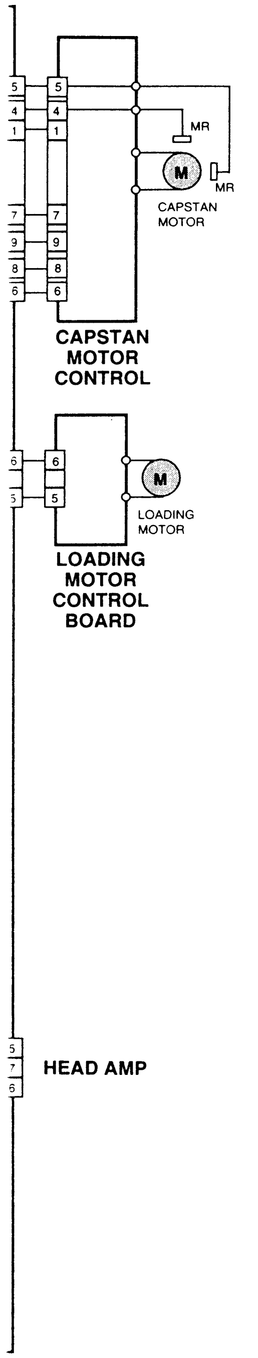
MECHA DECK CONTROL / SERVO CONTROL - GESTION / ASSERVISSEMENTS - MECHANIKSTEUERUNG / SERVO - CONTROLLO MECCANISMO / ASSERVIMENTI - SERVOMECANISMO / GESTIÓN

BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBILD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES


KEY DISPLAY BOARD
QK001 8MHz
5V
BK014
KEYBOARD
IK001 C TIMER
ZK001 I.R. RECEIVER
MAIN BOARD
BT003
2Vpp T=16 µs
CLOCK
K - DATA
S - DATA
RESET
STROBE
REMOTE
5Vpp
QT003 16MHz
3¹/pp
1,5Vpp
R=4Vpp
R/PB CTL
R
PB
VOLTAGE REF
CT017
A.DUB
RT016
TT 004
CONTROL TRACK HEAD
BS034
F. FWD
RWD
PEAK DETECT +
PEAK DETECT -
TRIGGER
RT042
RT041
RT043
CT023
2,4V
3Vpp(PBsp)
4V(PBsp)
CT026
1V(PBsp)
CT025
BW005
CTL OUT 5Vpp
47 IT001 25Hz / 200Hz
RT001
5VD
GT001
IT003
H+ 0,5Vpp
H- 0,5Vpp
DRUM FG/PG 25Hz/200Hz 5Vpp
TAPE END
TAPE START
GT005 TAPE END
GT006 TAPE START
GT003
GT004
REEL FG (TU.)
REEL FG (SUP.)
RT027
12,6VE
GT002 LED CASSETTE
RT012
ST001
CASS. SW / REC. SAVE
TT 003
RT030
ON / OFF
CAM SWITCH
BT002
CAM 2
CAM B
CAM A
CAM0/1
MECHADECK
TT001
TT002
RT021
RT022
RT026
INTERFACE RF / IF
SCART 1 / AFT
SCART 2
16:9
MONITOR
MPX ERROR
31,9 MHz
D
CK
RT063
RT064
12,6VE 6VE
DT001
DT002
BW001
POWER SUPPLY
14VE
33VE
TW001/002 TW003/005 TX006/008 TW009
U1 12VS
U2 5VS
IT004 EEPROM
HARD ERROR-CORRECT :5V
A VCC2
LT001
POWER GOOD
FEATURE BOARD (SENSAR VERSIONS)
COUNTER INDEX PLUS
IT001 µC
RT049
RT048
RT047
RT046
PB : 80 mVpp (758Hz) FGA
PB : 80 mVpp (758Hz) FGB
CAP 18V/14V
FAST FWD / RWD / SEARCH X7,X9 : 5V
CAP FWD : 0V / CAP REV. : 5V
5Vpp (T = 24 µs)
RT005/006 CT003/004
PB : 2,6V
Vm CAPST.
3Vpp (T = 48 µs)
RT004 CT002
PB : 3V
LIMITER
REFERENCE : 2,4V
DT017 DT015 DT014 DT003
20VE
TT005 TT006
BT001
MR
CAPSTAN MOTOR
CAPSTAN MOTOR CONTROL
3Vpp - 7Hz
Vm DRUM 2,7V
14VE
RT014/015 CT014/015
CT016
RT008
RT009
IT003
DRUM MOTOR
5VD
12,6VE
IT002 LOADING DRIVER
FWD
REV
LOAD OUT
LOAD IN
BT002
LOADING MOTOR
LOADING MOTOR CONTROL BOARD
FUNCTIONS TABLE IT002
6VE
14VE
RT055
RT017
RT018
TT010
DVCC1
AVCC1
RT072
TT012
RT088
TT011
DT009 /5,6V
RESET
IT005
CT049
RT067
AVCC2
TT 013
HD
OSD VIDEO
SHARPNESS
VIDEO MODE (SECAM : 2,4V / PAL : 0,9V)
DRUM F.F. 5Vpp
RV185
PULSE VERT. 3Vpp (T = 20 ms)
SPECIAL EFFECTS : 0V
REC ON : 5V
PB ON : 5V
COLOR ROT. 5Vpp
CK
D
SYNC. L+T : 4Vpp
HA SEL SP : 0 / LP : 5V
RT184
DRUM F.F. / HA SEL
COMP IN
VIDEO FM ENV. : 3V
LP : 5V
VIDEO PROCESS
lp 5V 3V
sp 1,7V 0.
BV001
HEAD AMP
R LEV MTR
L LEV MTR
AUDIO FM ENV
A. MUTE : 5V
ERASE : 5V
FLIP-FLOP 25 Hz
HI-FI DETECTION
AUDIO PROCESS
SER./ PAR. DATA
SER./ PAR. CLOCK
VIDEO PROCESS

FUNCTIONS TABLE IT002

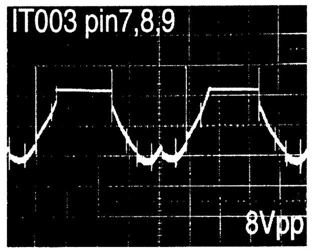
	1	9	3	7
STOP	5V	5V	0	0
FORWARD	0	5V	0	12,6V
REVERSE	5V	0	12,6V	0



SERVO		MODE	
LOC	PIN	PLAY	REC.
IT001	1	0	0
	2	0.4	2.3
	3	2,1	0
	4	3.4	0
	5	1.9	0
	6	0	0
	7	0	4.9
	8	0	3.7
	9	0.1	3.7
	10	0	0
	11	2	2
	12	0	0
	13	4.9	4.9
	14	4.8	4.8
	15	0	2.1
	16	0	0
	17	0	0
	18	0	0
	19	4.8	0
	20	0	0
	21	4.4	0
	22	5.1	0
	23	4.8	0
	24	4.9	4.9
	25	4.8	4.8
	26	4.8	4.8
	27	0	0
	28	0	0
	29	4.7	0
	30	4.6	0
	31	0	0
	32	2.4	2.4
	33	2.4	2.8
	34	2.4	2.4
	35	2.4	2.4
	36	2.4	2.4
	37	2.4	2.4
	38	3.8	2.4
	39	0.9	2.2
	40	2.4	2.4
	41	2.4	2.4
	42	2.4	2.4
	43	2.4	2.4
	44	0	2.4
	45	4.8	4.8
	46	4.8	4.8
	47	1.2	1.2
	48	4.9	4.9
	49	5	0
	50	4.9	4.8
	51	1.8	1.6
	52	4.9	5
	53	0	0
	54	4	2.1
	55	4.8	4.8
	56	0	0
	57	2.1	3.3
	58	2.5	2.5
	59	4.8	4.8
	60	2.3	2.3
	61	2	2
	62	4.8	4.8
	63	2.2	0.5
	64	4.8	4.8

SERVO		MODE	
LOC	PIN	PLAY	REC.
	65	0	0
	66	0	0
	67	0	0
	68	4.7	0
	69	4.7	4.7
	70	0.7	0.7
	71	0	0
	72	0	0
	73	0.8	0
	74	0	0
	75	1.3	1.3
	76	1.8	1.8
	77	1.5	0.2
	78	2.2	2.2
	79	2.2	2.2
	80	5.1	5.1
	81	-	-
	82	-	-
	83	4.9	4.9
	84	4.9	4.9
	85	4.8	4.8
	86	4.5	4.5
	87	4.6	4.6
	88	4.8	4.8
	89	2.3	2.3
	90	0	4.8
	91	2.4	2.4
	92	2.4	2.4
	93	4.7	0
	94	4.7	0
	95	4.3	4.3
	96	2.6	2.6
	97	4.3	4.3
	98	1.5	1.5
	99	2.5	2.5
	100	2.7	2.7
IT002	1	4.6	4.6
	2	4.9	4.9
	3	0.5	0.5
	4	-	-
	5	0	0
	6	12.4	12.4
	7	0.5	0.5
	8	12.4	12.4
	9	4.6	4.6
IT003	1	1.3	1.3
	2	1.4	1.4
	3	0	0
	4	0	0
	5	13.1	13.1
	6	0	0
	7	10	10
	8	10	10
	9	10	10
	10	0	0
	11	2.7	2.7
	12	0	0
	13	5	5
	14	3.2	3.2
	15	0.6	0.6
	16	0.8	0.8

SERVO		MODE	
LOC	PIN	PLAY	REC.
IT004	1	0	0
	2	0	0
	3	0	0
	4	0	0
	5	4.5	4.5
	6	4.7	4.7
	7	0	0
	8	4.9	4.9
IT005	1	4.8	4.8
	2	0	0
	3	4.8	4.8
TT001	E	0	0
	B	4.5	4.5
	C	0	0
TT002	E	0	0
	B	4.5	4.5
	C	0	0
TT003	E	0	0
	B	0.7	0.7
	C	0	0
TT004	E	2.3	2.3
	B	4.8	4.8
	C	0	0
TT005	E	23.3	23.3
	B	22.7	22.7
	C	10.7	10.7
TT006	E	0	0
	B	0	0
	C	22	22
TT010	E	4.9	4.9
	B	5.6	5.6
	C	5.8	5.8
TT011	E	4.8	4.8
	B	5.5	5.5
	C	5.7	5.7
TT012	E	4.8	4.8
	B	5.6	5.6
	C	5.7	5.7
TT013	E	2	2
	B	1.3	1.3
	C	0	0



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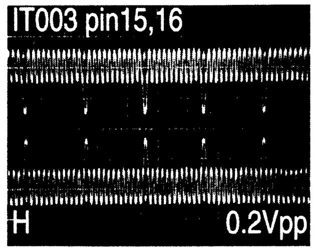

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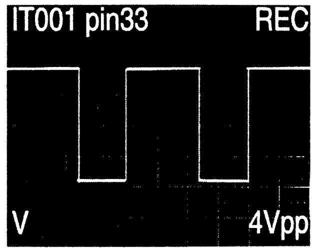

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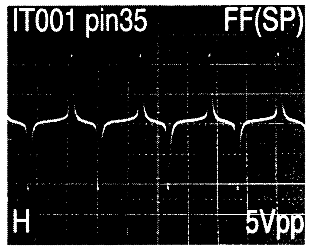

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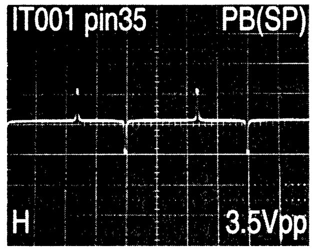

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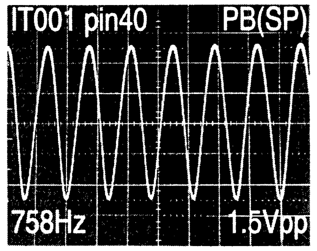

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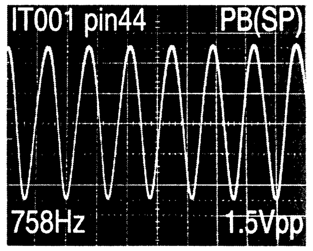

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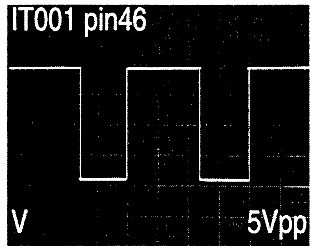

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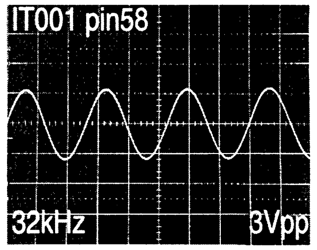
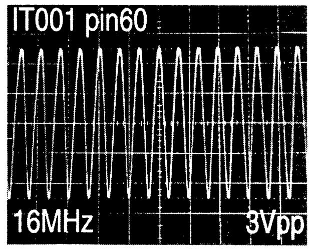


⑨



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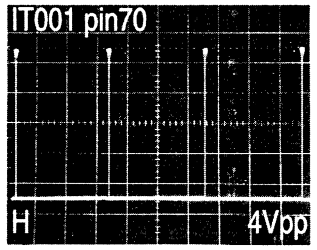

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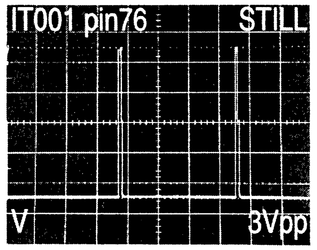
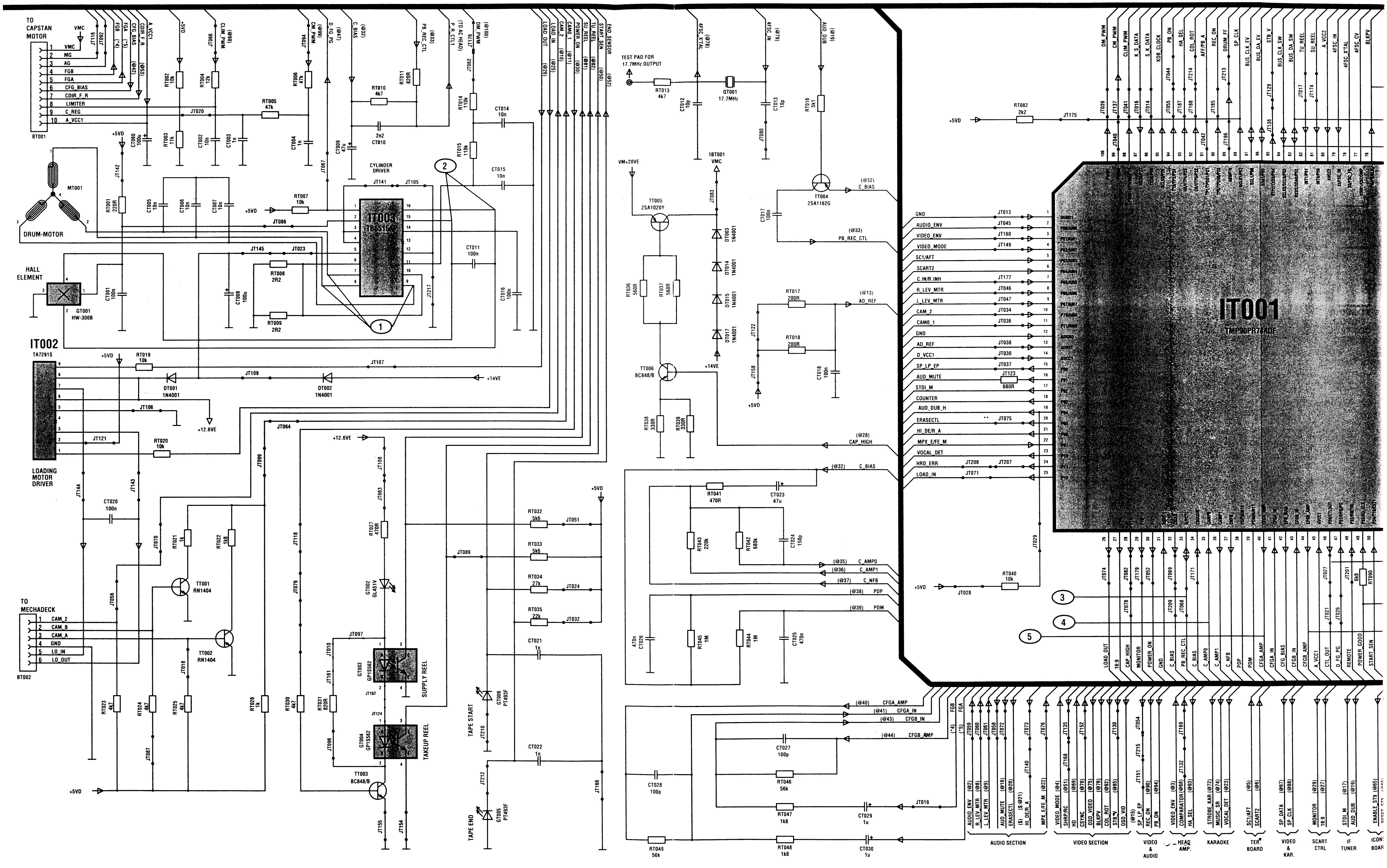


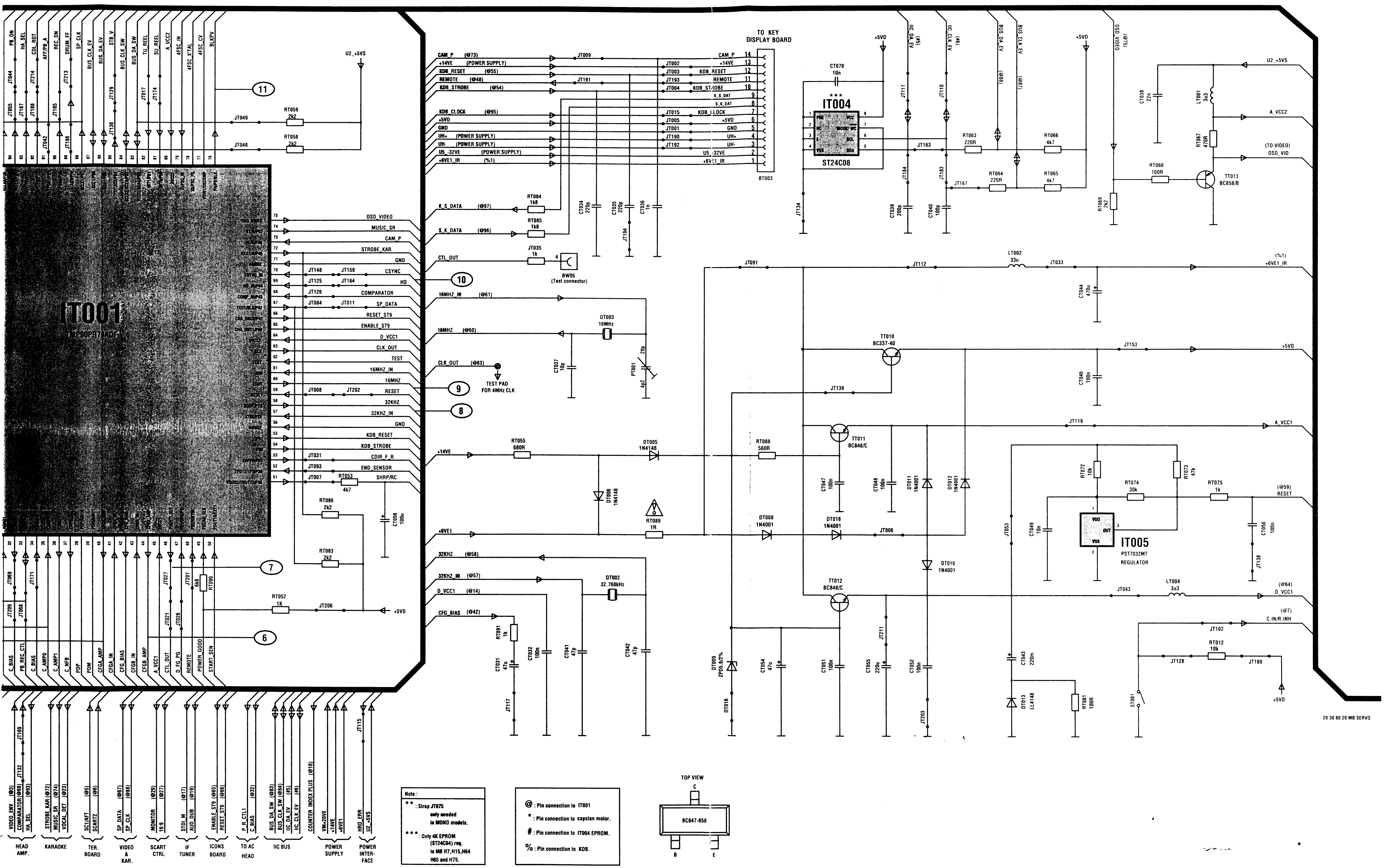
⑫

MECHA DECK CONTROL / SERVO CONTROL - GESTION / ASSERVISSEMENTS - MECHANIKSTEUERUNG / SERVO - CONTROLLO MECCANISMO / ASSERVIMENTI - SERVO

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA



TO CAPSTAN MOTOR
VMC
MG
AG
FGB
FGA
CFG_BIAS
CDIR_F_R
LIMITER
C_REG
A_VCC1
BT001
MT001
DRUM-MOTOR
HALL ELEMENT
GT001 HW-300B
IT002
TA7291S
LOADING MOTOR DRIVER
IT003
TB6515AP
CYLINDER DRIVER
DT001 1N4001
DT002 1N4001
+12.6VE
+14VE
+5VD
TO MECHADECK
CAM_2
CAM_B
CAM_A
GND
LO_IN
LO_OUT
BT002
TT001 RN1404
TT002 RN1404
TT003 BC848/B
GT002 GL451V
GT003 GP1S562
SUPPLY REEL
GT004 GP1S562
TAKEUP REEL
GT006 PT493F
TAPE START
GT005 PT493F
TAPE END
TEST PAD FOR 17.7MHz OUTPUT
QT001 17.7MHz
4FSC_XTAL
4FSC_IN
AUD_DUB
VM+20VE
TT005 2SA1020Y
TT006 BC848/B
TT004 2SA1162G
DT003 1N4001
DT014 1N4001
DT015 1N4001
DT017 1N4001
C_BIAS
PB_REC_CTL
AD_REF
CAP_HIGH
C_AMP0
C_AMP1
C_NFB
PDP
PDM
CFGA_AMP
CFGA_IN
CFGB_IN
CFGB_AMP
IT001
TMP90PR74ADF
GND
AUDIO_ENV
VIDEO_ENV
VIDEO_MODE
SC1/AFT
SCART2
C_IN/R.INH
R_LEV_MTR
L_LEV_MTR
CAM_2
CAMO_1
GND
AD_REF
D_VCC1
SP_LP_EP
AUD_MUTE
STDI_M
COUNTER
AUD_DUB_H
ERASECTL
HI_DE/R_A
MPX_E/FE_M
VOCAL_DET
HRD_ERR
LOAD_IN
DM_PWM
CM_PWM
CLIM_PWM
K_S_DATA
S_K_CLOCK
KDB_CLOCK
PB_ON
HA_SEL
COL_ROT
AFF/PB_A
REC_ON
DRUM_FF
SP_CLK
BUS_CLK_EV
BUS_DA_EV
STB_V
BUS_CLK_SW
BUS_DA_SW
SU_REEL
TU_REEL
A_VCC2
4FSC_IN
4FSC_XTAL
4FSC_CV
BLKPV
LOAD_OUT
16:9
CAP_HIGH
MONITOR
POWER_ON
GND
C_BIAS
PB_REC_CTL
C_AMP0
C_AMP1
C_NFB
PDP
PDM
CFGA_AMP
CFGA_IN
CFGB_IN
CFGB_AMP
A_VCC1
CTL_OUT
D_FG_PG
REMOTE
POWER_GOOD
START_SEN
AUDIO SECTION
VIDEO SECTION
VIDEO & AUDIO
HEAD AMP.
KARAOKE
TER BOARD
VIDEO & KAR.
SCART CTRL
IF TUNER
ICON BOAR


IT001
IT004
ST24C08
IT005
PST7032MT
REGULATOR
TO KEY
DISPLAY BOARD
BT003
CAM_P (@73)
+14VE (POWER SUPPLY)
KDB_RESET (@55)
REMOTE (@48)
KDB_STROBE (@54)
KDB_CLOCK (@95)
+5VD
GND
UH+ (POWER SUPPLY)
UH- (POWER SUPPLY)
U5_-32VE (POWER SUPPLY)
+6VE1_IR (%1)
K_S_DATA (@97)
S_K_DATA (@96)
CTL_OUT
BW05
(Test connector)
16MHZ_IN (@61)
16MHZ (@60)
QT003
16MHz
CLK_OUT (@63)
TEST PAD
FOR 4MHz CLK
+14VE
+6VE1
32KHZ (@58)
32KHZ_IN (@57)
QT002
32.768kHz
D_VCC1 (@14)
CFG_BIAS (@42)
IIC_DA_EV (#5)
IIC_CLK_EV (#6)
BUS_DA_EV (@86)
BUS_CLK_EV (@87)
OSD_VIDEO (@75)
U2_+5VS
A_VCC2
(TO VIDEO)
OSD_VID
TT013
BC858/B
(%1)
+6VE1_IR
TT010
BC337-40
+5VD
A_VCC1
TT011
BC848/C
(@59)
RESET
TT012
BC848/C
(@64)
D_VCC1
(@7)
C.IN/R.INH
ST001
OSD_VIDEO
MUSIC_SR
CAM_P
STROBE_KAR
GND
CSYNC
HD
COMPARATOR
SP_DATA
RESET_ST9
ENABLE_ST9
D_VCC1
CLK_OUT
TEST
16MHZ_IN
16MHZ
RESET
32KHZ
32KHZ_IN
KDB_RESET
KDB_STROBE
CDIR_F_R
END_SENSOR
SHRP/RC
PB_ON
HA_SEL
COL_ROT
AFF/PB_A
REC_ON
DRUM_FF
SP_CLK
BUS_CLK_EV
BUS_DA_EV
STB_V
BUS_CLK_SW
BUS_DA_SW
TU_REEL
SU_REEL
A_VCC2
4FSC_IN
4FSC_XTAL
4FSC_CV
BLKPV
C_BIAS
PB_REC_CTL
C_BIAS
C_AMP0
C_AMP1
C_NFB
PDP
PDM
CFGA_AMP
CFGA_IN
CFG_BIAS
CFGB_IN
CFGB_AMP
A_VCC1
CTL_OUT
D_FG_PG
REMOTE
POWER_GOOD
START_SEN
VIDEO_ENV (@3)
COMPARATOR (@68) JT132
HA_SEL (@93)
STROBE_KAR (@72)
MUSIC_SR (@74)
VOCAL_DET (@23)
SC1/AFT (@5)
SCART2 (@6)
SP_DATA (@67)
SP_CLK (@88)
MONITOR (@29)
16:9 (@27)
STDI_M (@17)
AUD_DUB (@19)
ENABLE_ST9 (@65)
RESET_ST9 (@66)
P_R_CTL1 (@32)
C_BIAS
BUS_DA_SW (@83)
BUS_CLK_SW (@84)
IIC_DA_EV (#5)
IIC_CLK_EV (#6)
COUNTER INDEX PLUS (@18)
VM+20VE
+14VE
+6VE1
HRD_ERR
U2_+5VS
HEAD
AMP.
KARAOKE
TER.
BOARD
VIDEO
&
KAR.
SCART
CTRL
IF
TUNER
ICONS
BOARD
TO AC
HEAD
IIC BUS
POWER
SUPPLY
POWER
INTER-
FACE
TOP VIEW
C
BC847-858
B
E
20 38 80 20 MB SERVO

Note :

** : Strap JT075 only needed in MONO models.

*** : Only 4K EPROM (ST24C04) req. in MB H7,H15,H64 H65 and H75.

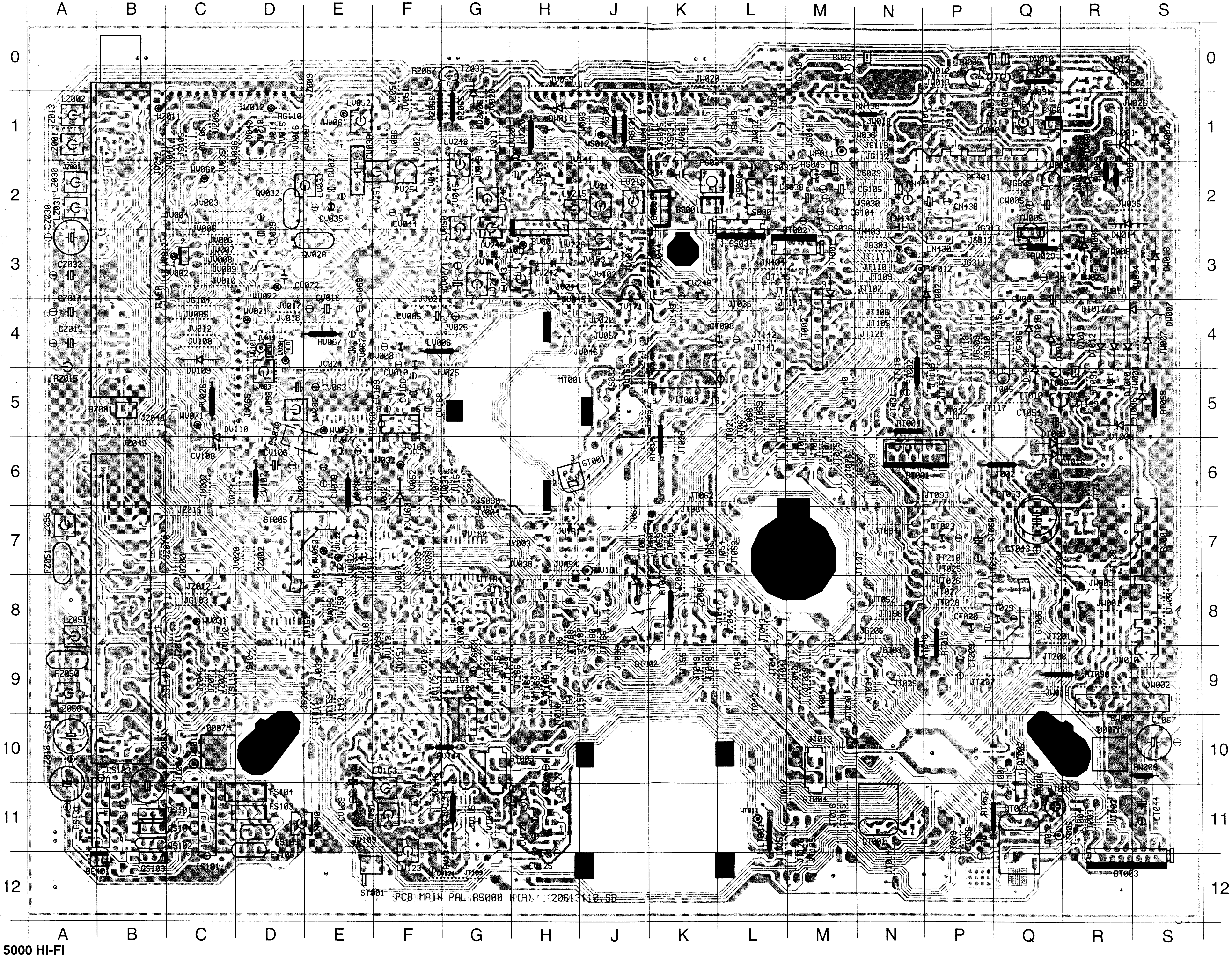
@ : Pin connection to IT001

* : Pin connection to capstan motor.

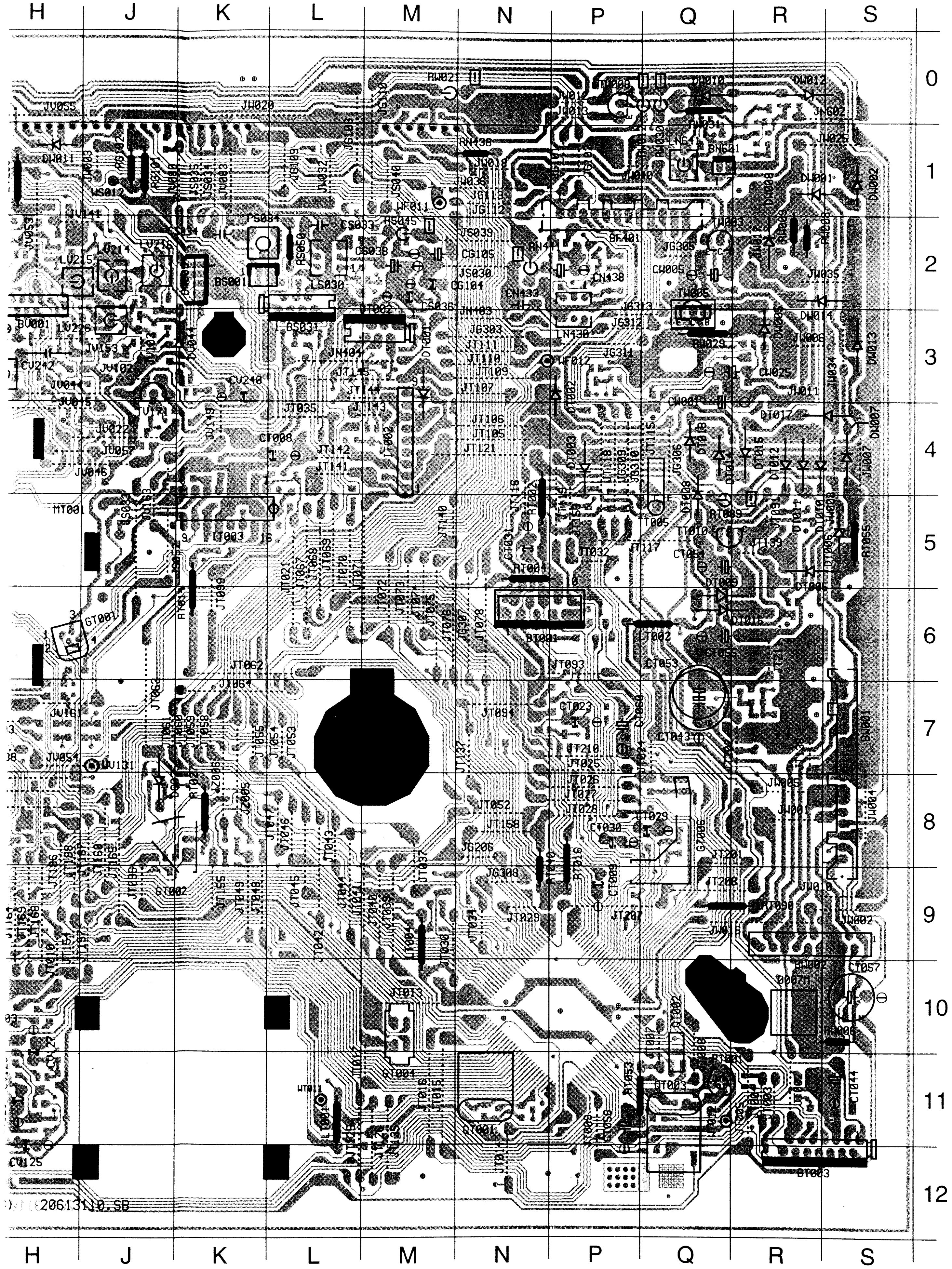
: Pin connection to IT004 EPROM.

% : Pin connection to KDB.

Main P.C.B. components side • Circuit imprimé de la platine principale côté composants • Hauptleiterplatte Bestückungsseite
Piastra principale lato componenti • Platina principal lado componentes


A B C D E F G H J K L M N P Q R S
0 1 2 3 4 5 6 7 8 9 10 11 12
PCB MAIN PAL R5000 H(A) 20613110.SB

platine principale côté composants • Hauptleiterplatte Bestückungsseite
nponenti • Platina principal lado componentes



COMPONENTS LOCATION - LOCALISATION DES ELEMENTS - LAGE DER BAUTEILE
LOCALIZZAZIONE DEGLI ELEMENTI - LOCALIZACION DE LOS COMPONENTES

* SOLDER SIDE - COTE CUIVRE - LÖTSEITE - LATO SALDATURE - LADO DEL COBRE

1 2 3

BE401	B12
BE401*	S0
BF401	P2
BF401*	D10
BN601	Q1
BN601*	B11
BS001	K2
BS001*	H10
BS030	D5
BS030*	P7
BS031	L3
BS031*	H10
BT001	N6
BT001*	D7
BT002	M2
BT002*	G10
BT003	R12
BT003*	A0
BV001	H3
BV001*	K10
BV002	C3
BV002*	Q9
BW001	S7
BW001*	A5
BW002	R9
BW005	K2
BW005*	H10

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CF401*	D11
CG101*	R10
CG102*	R9
CJ104	N2
CJ105	N2
CN431*	D10
CN433	N2
CN436*	D10
CN438	P2
CN438*	D10
CN637*	P2
CN640*	C11
CN643*	B11
CN644*	B12
CN645*	C12
CN646*	C11
CS030*	G10
CS031*	G11
CS033	L2
CS034	J2
CS036	M2
CS038	L2
CS101*	Q1
CS102*	Q1
CS103*	Q1
CS104*	Q1
CS112*	R2
CS113	A10
CS116*	S1
CS118*	R1
CS121*	S1
CS122*	S3
CS123*	R1
CS124*	R2
CS131	A11
CS132*	Q1
CS133	B10
CS134*	Q2
CS135*	M11
CT001*	H8
CT002*	E7
CT003*	D7
CT004*	E6
CT005*	J7
CT006*	J8

CT007*	J7
CT008	L4
CT009	P9
CT010*	G9
CT011*	H7
CT012*	E1
CT013*	E1
CT014*	H7
CT015*	H8
CT016*	H8
CT017*	E5
CT018*	F3
CT020*	F8
CT021*	C5
CT022*	P5
CT023	P7
CT024*	D5
CT025*	D6
CT026*	D5
CT027*	C4
CT028*	D3
CT029	P8
CT030	P8
CT031	N5
CT032*	F2
CT034*	C2
CT035*	C1
CT036*	C1
CT037*	C1
CT038*	G1
CT039*	L2
CT040*	L3
CT041*	C2
CT042*	C2
CT043	Q7
CT044	S11
CT045*	C7
CT046*	C7
CT047*	B7
CT048*	B7
CT049*	B5
CT050*	C5
CT051*	C7
CT052*	C6
CT053	Q6
CT054	Q5
CT055	Q6
CT056	P11
CT060	P7
CT070*	L3
CV001*	M9
CV002*	M9
CV004*	L8
CV005	F4
CV006*	L8
CV007	F3
CV008	F4
CV009*	M8
CV010	F4
CV011*	M9
CV013*	N8
CV016	E3
CV022*	N9
CV025*	P9
CV029	D2
CV030*	P10
CV032*	N10
CV034*	N10
CV035	E2
CV036*	N10
CV037	E2
CV038	E1
CV039*	N10
CV041*	M10
CV042*	M10
CV044	F2
CV045*	M10
CV046*	L9
CV047*	M9
CV048*	M10
CV049*	M9

CV050*	L10
CV051*	M11
CV052*	N11
CV053*	N11
CV054*	N12
CV055*	N12
CV062*	P8
CV063	E5
CV064*	N8
CV065*	N8
CV067	E4
CV069	E3
CV071*	N8
CV072	E3
CV074*	N6
CV076*	N7
CV077	E5
CV078*	N7
CV079	E6
CV082*	P7
CV083*	P7
CV103*	P7
CV106	D6
CV107*	P6
CV108	C6
CV121	G12
CV122*	L2
CV123	H11
CV124*	M0
CV125	H12
CV126*	K1
CV127	H10
CV128	H11
CV135*	M2
CV139	E10
CV140*	N2
CV141*	M2
CV150*	M1
CV151*	M1
CV152*	M1
CV153*	N2
CV154*	N1
CV155*	N1
CV156*	N1
CV161*	M6
CV163*	M7
CV164	G9
CV165*	M7
CV166	F5
CV167*	M7
CV168	F5
CV169	F5
CV170*	P4
CV171*	N5
CV182*	K10
CV184*	K10
CV189*	J8
CV200*	K11
CV201	G1
CV202*	K10
CV206*	J11
CV212*	K10
CV213*	K10
CV214*	J10
CV215*	J10
CV219*	J9
CV222*	K9
CV224*	J9
CV226*	J10
CV240	K3
CV241*	L9
CV242	H3
CV243*	L9
CV244*	L10
CV245*	L10
CV246*	L10
CV247*	L9
CV248*	L10
CV249*	L11
CV250*	L10
CV251*	M10

CV252*	N11
CV254*	L11
CW001	Q3
CW005	Q2
CW007*	B10
CW025	R3
CY001*	L4
CY002*	L4
CY003*	L4
CY004*	M4
CZ005*	R6
CZ010*	R3
CZ013*	S8
CZ014	A4
CZ015	A4
CZ019*	Q4
CZ021*	S8
CZ030	A3
CZ033	A3
CZ034*	S10
CZ035*	R9
CZ036*	S10
CZ055*	S5
CZ056*	S6

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DG030*	Q5
DG034*	M4
DG035	J8
DS112	B9
DT001	M3
DT002	P4
DT003	P4
DT005	R5
DT006	S5
DT008	Q4
DT009	Q5
DT010	R5
DT011	R5
DT012	R4
DT013*	B5
DT014	Q4
DT015	R4
DT016	Q6
DT017	R3
DT018	Q4
DV003	F6
DV029*	P9
DV039*	M10
DV044	K3
DV048*	L9
DV082*	P5
DV109	C4
DV110	C5
DV123*	K1
DV126*	P5
DV163	F6
DV182*	L10
DV186*	K8
DV202*	K10
DW001	R1
DW002	S1
DW005	R3
DW006*	B9
DW007	S4
DW008	R1
DW010	Q0
DW011	H1
DW012	R0
DW013	S3
DW014	R2
DZ001*	S11
DZ002*	R4
DZ003*	R4
DZ004*	R4
DZ005*	R3

FS103	D11
FS104	D11
FS105	D11
FS106	D11
FU01*	P0
FU02*	A11
FU03*	N9
FU04*	N9
FU05*	D2
FU06*	D3
FU07*	C1
FZ050	A9
FZ051	A7

IS101	C12
IS101*	Q1
IS102	B11
IS102*	R2
IT001*	D3
IT002	M4
IT002*	F8
IT003	K5
IT003*	H7
IT004	G9
IT004*	L3
IT005*	B5
IV001*	M9
IV060*	M7
IV100*	P7
IV120*	L1
IV160	E5
IV160*	M7
IV170*	P4
IV171*	M5
IY001*	L5

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JG031	G9
JG036*	L3
JG037*	M3
JG101	N1
JG102	P1
JG103	C8
JG104	C4
JG105	C1
JG106	C1
JG107*	R11
JG108	L1
JG109	L1
JG110	M0
JG112	N1
JG113	N1
JG200	C7
JG201*	P3
JG202*	S7
JG203*	P3
JG204	E9
JG205*	K4
JG206	N8
JG303	N3
JG305	Q2
JG306	Q4
JG307	M6
JG308	N8
JG309	P4
JG310	P4
JG311	P3
JG312	P3
JG313	P3
JN401*	E10
JN403	N2
JN404	L3
JN602	R0

JN603*	B12
JS030	N2
JS031*	G10
JS033	J5
JS034	K1
JS035	K1
JS036*	K5
JS037*	K6
JS038	G6
JS039	N2
JS040	M1
JS043*	G9
JS044	G6
JS050*	K6
JS051*	J6
JS052	J5
JS101*	P1
JS102*	R1
JS103*	Q1
JS104	D9
JS107*	R2
JS108*	S2
JS109*	S2
JS110*	G11
JS112*	R0
JS113*	R1
JS115	C9
JS116*	R1
JT001*	A2
JT002	R11
JT003	R11
JT004	R11
JT005	R11
JT006*	B8
JT007	Q10
JT008	Q10
JT009	P11
JT010	H9
JT011	E9
JT013	M10
JT014	N11
JT015	M11
JT016	M11
JT017	L11
JT018*	G9
JT019*	D6
JT020*	D6
JT021	L5
JT023*	H8
JT024	P7
JT025	P7
JT026	P7
JT027	P8
JT028	P8
JT029	N9
JT030	M9
JT031*	D6
JT032	P5
JT033*	C6
JT034	N9
JT035	L3
JT036*	F3
JT037	M8
JT038*	F3
JT039	M9
JT040	M9
JT041	L9
JT042	L9
JT043	L8
JT044	L9
JT045	L9
JT046	L8
JT047	L8
JT048	K9
JT049	K9
JT051*	L3
JT052	N8
JT053	L7
JT054	L7
JT055	K7
JT056*	G8

JT058	K7
JT059	K7
JT060	K7
JT061	J7
JT062	K6
JT063	J7
JT064	K6
JT066*	H6
JT067	L5
JT068	L5
JT069	L5
JT070	L5
JT071	L5
JT072	M6
JT073	M6
JT074	M6
JT075	M6
JT076	M6
JT078	N6
JT079*	D6
JT080*	E1
JT082*	E5
JT083*	E8
JT084*	K0
JT086*	G8
JT087*	G8
JT089*	J3
JT091	R5
JT092*	E5
JT093	P6
JT094	N7
JT096	J9
JT097*	K3
JT099	K6
JT102*	K3
JT105	N4
JT106	N4
JT107	N3
JT108*	E9
JT109	N3
JT110	N3
JT111	N3
JT112*	B6
JT115	Q4
JT116	N4
JT117	P5
JT118	P4
JT119	P5
JT121	N4
JT122*	G3
JT123*	E4
JT124*	K2
JT125	L11
JT126	M11
JT128*	K3
JT129*	L3
JT130*	L3
JT132*	K5
JT134*	M3
JT135	M11
JT136*	G3
JT137	N7
JT138	R7
JT139	R5
JT140	M5
JT141	L4
JT142	L4
JT143	L3
JT144	L3
JT145	L3
JT148*	K0
JT149	G9
JT151	G8
JT152	E8
JT153	P5
JT154	H9
JT155	K9
JT158	N8
JT159	E9
JT160	J8
JT161*	K2

JT163	G9
JT164	H9
JT165	J8
JT166	H9
JT167	G9
JT168	H9
JT169	H9
JT171*	E5
JT174*	K2
JT175*	K3
JT176*	E4
JT177*	K4
JT179*	H5
JT183	G8
JT184	G7
JT186	H9
JT187	J8
JT188	H8
JT189	G12
JT190*	A2
JT191*	B1
JT192*	A1
JT193*	B1
JT194*	C1
JT201	Q8
JT202	Q7
JT203*	B7
JT206*	C4
JT207	P9
JT208	Q9
JT209*	G9
JT210	P7
JT211	R6
JT212*	K4
JT213*	K4
JT214*	K4
JT215*	J4
JT217*	G8
JV001*	L9
JV002	C6
JV003	C2
JV004	C2
JV005	C3
JV006	C3
JV007	C3
JV008	C3
JV009	C3
JV010	C3
JV011	G1
JV012	C4
JV013	D1
JV014	D1
JV015	D1
JV016	D1
JV017	D4
JV018	D4
JV019	D4
JV020	G1
JV021	F1
JV022	J4
JV024	E4
JV025	G4
JV026	G4
JV027	F3
JV028	D7
JV029	D6
JV030	D6
JV031	E6
JV032	F6
JV034	G6
JV035	C1
JV036	C1
JV037*	Q10
JV038	H7
JV039	E9
JV040	D1
JV041	C1
JV042	B1
JV043*	M8
JV044	H3
JV045	H3

JV046	J4
JV047	F2
JV048	G2
JV049	G[illegible]
JV051	F1
JV052	F6
JV053	H2
JV054	H7
JV055	H0
JV056*	Q11
JV057	J4
JV058*	Q10
JV060*	H9
JV061*	Q9
JV062*	N3
JV065*	P8
JV066*	K10
JV068*	Q10
JV069*	P8
JV070*	N6
JV071*	N6
JV074*	N4
JV075*	N4
JV076*	P9
JV077*	M5
JV078*	Q10
JV079*	Q9
JV080	J1
JV083	K1
JV085	C4
JV086	F1
JV087	D1
JV089*	N3
JV090*	N5
JV094*	J8
JV095*	Q10
JV096	E8
JV097	F7
JV098	D5
JV099	F8
JV100	C4
JV101*	K9
JV102	J3
JV103	J3
JV104	G11
JV105	E7
JV108	F7
JV109	E11
JV110	F9
JV111	E7
JV112	F9
JV113	F8
JV114	E7
JV115	G11
JV117*	R10
JV118	E8
JV120	D8
JV122	E7
JV123*	P5
JV126*	K1
JV129*	P7
JV130*	P8
JV131*	K9
JV139	F7
JV140*	M8
JV141	H1
JV142	G3
JV143	E9
JV144	F11
JV145*	M2
JV148	F11
JV149	K4
JV150	E7
JV151	F8
JV152	E7
JV153	J3
JV154	G6
JV155*	M2
JV156*	M2
JV158*	P10
JV159*	L9
JV160	G7
JV161	H7
JV162*	H7
JV163	J5
JV165	F6
JV215	H2
JW001	R8

JW002	S9
JW003	J1
JW004	S8
JW005	R7
JW006	R3
JW007	S4
JW008	S5
JW009*	H9
JW010	R9
JW011	R3
JW012	P0
JW013	P0
JW014*	H10
JW015*	B3
JW016	Q9
JW017	R2
JW018	N1
JW019*	D12
JW020	K0
JW025	R1
JW026*	F12
JW027*	A3
JW032	L1
JW034	S3
JW035	R2
JW036	N1
JW040	P1
JW041*	K12
JY002	G8
JY003	H7
JY004	G7
JY006*	K5
JY007*	J5
JY008*	J5
JY009*	K5
JY010*	K5
JY011*	J5
JY012*	L5
JZ001	A2
JZ002	D7
JZ003*	S10
JZ004	C10
JZ005	K8
JZ006	K8
JZ007*	R8
JZ008*	R4
JZ009*	R12
JZ010*	R2
JZ011	C8
JZ012	C8
JZ014*	R10
JZ015*	R5
JZ016	C6
JZ017*	R8
JZ018	A10
JZ019*	R5
JZ020*	P11
JZ021	C9
JZ022*	S8
JZ023*	H4
JZ024*	K3
JZ025*	K3
JZ030*	P11
JZ040*	R5
JZ041*	R9
JZ042*	S9
JZ045*	S7
JZ046	C9
JZ048	B5
JZ049	B6
JZ051	F1
JZ052	C1
JZ053*	Q11
JZ061	B10
JZ062*	Q2
JZ070	B7
JZ071	C9
JZ072*	P3
JZ073*	Q2

LN430	P2
LN430*	D9
LN640	E11
LN641	Q1
LS030	L2

LS030*	G11
LT001	L11
LT002	Q6
LT004	M9
LV008	F4
LV023*	P3
LV033	E2
LV050	G2
LV052	E1
LV053	E1
LV063	D4
LV078	E6
LV082	E5
LV107	D6
LV123	F12
LV151	E11
LV153	F10
LV155	E10
LV162	F5
LV200	H1
LV214	J2
LV216	J2
LV226	H3
LV243	G3
LV245	G3
LV246	G2
LV247	G3
LV248	G1
LV251	F2
LZ001	A1
LZ002	A1
LZ030	A2
LZ031	A2
LZ050	A9
LZ051	A8
LZ055	A7

PS034	K1
PT001	Q10
PV251	F2

QS101	B11
QS102	B11
QS103	B12
QS104	B11
QT001	N11
QT002	Q10
QT003	Q11
QV028	E3
QV032	D2

RG030*	J4
RG031*	J5
RG032*	M4
RG033*	M4
RG034*	M4
RG035*	M3
RG036*	L3
RG037*	Q11
RG038*	R11
RG101	J1
RG102	J1
RG105*	R7
RG106*	Q7
RG107*	Q5
RG108*	Q5
RG109*	E11
RG111*	J11
RG112*	F11
RN431*	D10
RN436	N1
RN437*	E11
RN439*	D10
RN440*	D10
RN441	N2
RN640*	B12
RN641*	C11

RN642*	C11
RN643*	B11
RN644*	B11
RN645*	B12
RN646*	B12
RS030*	F10
RS031*	F10
RS035*	H10
RS036*	F11
RS039*	F10
RS040*	F10
RS042*	G10
RS043*	G10
RS044*	H11
RS045	M1
RS050	L2
RS051*	H10
RS101*	Q1
RS102*	R1
RS103*	R1
RS104*	R1
RS105*	Q1
RS106*	R1
RS112*	R2
RS113*	P1
RS114*	P2
RS115*	P1
RS116*	P1
RS119*	R1
RS120*	S3
RS121*	R1
RS122*	Q1
RS127*	Q1
RS128*	Q1
RS130*	Q4
RS901*	R1
RS904*	S2
RS905*	Q2
RS982*	Q1
RS983*	Q1
RT001*	G8
RT002	N4
RT002*	L3
RT003*	E7
RT004	N5
RT005*	E6
RT006*	E6
RT007*	G8
RT008*	H8
RT009*	H8
RT010*	G9
RT011*	G9
RT012*	M0
RT013*	E1
RT014	K6
RT015*	H7
RT016	P8
RT017*	F3
RT018*	F3
RT019*	F9
RT020*	F8
RT021*	G9
RT022*	G8
RT023*	F9
RT024*	F9
RT025*	F10
RT026*	G8
RT027	K8
RT030*	H4
RT031*	J3
RT032*	L2
RT033*	K3
RT034*	C4
RT035*	C5
RT036*	D8
RT037*	D8
RT038*	D7
RT039*	D8
RT040	N8
RT041*	D5
RT042*	D4
RT043*	D5
RT044*	D5
RT045*	D5
RT046*	C4
RT047*	C4
RT048*	C4
RT049*	C3

RT050*	H4
RT051*	H4
RT052*	B4
RT053	P11
RT055	S5
RT058*	E11
RT059*	E11
RT063*	L2
RT064*	L2
RT065*	K3
RT067*	G1
RT068*	F1
RT069*	D1
RT071*	B4
RT072*	B6
RT073*	B6
RT074*	B6
RT075*	C5
RT081*	C5
RT082*	L3
RT083*	G0
RT084*	C1
RT085*	C1
RT086*	G0
RT088*	B7
RT089	Q5
RT090	R9
RT091*	D5
RV001*	L9
RV002*	M9
RV003*	L8
RV004*	K8
RV005*	M8
RV006*	M8
RV007*	M8
RV008*	L8
RV010*	M6
RV011*	M8
RV020*	H8
RV021*	P9
RV022*	P9
RV023*	N9
RV024*	N5
RV025*	P9
RV026	C5
RV027*	P9
RV028*	N10
RV029*	P10
RV030*	P10
RV032*	P10
RV035*	R9
RV036*	N10
RV041*	N10
RV044*	M9
RV045*	M9
RV046*	M9
RV047*	L10
RV048*	Q10
RV049*	M9
RV050*	L10
RV051*	N11
RV052*	M12
RV053*	K11
RV054*	N11
RV055*	N12
RV056*	N11
RV067	E4
RV070*	P8
RV071*	P8
RV072*	N8
RV073*	P6
RV074*	N6
RV075*	P6
RV076*	N7
RV077*	N7
RV104*	P9
RV105*	P6
RV106*	P6
RV109*	P6
RV110*	P6
RV111*	L4
RV112*	P6
RV120*	M1
RV121*	L1
RV122*	L1
RV123*	K1
RV124*	K1
RV125*	K2

RV126*	P6
RV127*	P5
RV128*	K1
RV129*	K2
RV130*	L2
RV131*	K1
RV135	G11
RV137*	N2
RV138*	M2
RV139*	M3
RV140*	N2
RV141*	N2
RV142*	M2
RV143*	M2
RV144	G10
RV145*	M3
RV146*	N2
RV147*	M2
RV148*	M3
RV150*	M1
RV151*	M1
RV154*	N1
RV160*	M7
RV161*	M6
RV163*	M7
RV164*	L4
RV165*	L4
RV166*	M7
RV167*	M7
RV168*	M7
RV169*	Q4
RV170*	J9
RV171*	H9
RV181*	L10
RV182*	K9
RV183*	J9
RV184*	K9
RV185*	K9
RV186*	J8
RV187*	K8
RV188*	K9
RV189*	J8
RV190*	J8
RV191*	K9
RV192*	K9
RV194*	J8
RV200*	L10
RV201*	K11
RV202*	K10
RV203*	K10
RV204*	K11
RV206*	K11
RV213*	J10
RV214*	J10
RV215*	J10
RV221*	J9
RV222*	J9
RV223*	J9
RV224*	J9
RV225*	J9
RV227*	J10
RV241*	L9
RV242*	K9
RV243*	L9
RV244*	L9
RV245*	L10
RV247*	L9
RV248*	L10
RV249*	L11
RV250*	L10
RV251*	L10
RV252*	M11
RV253*	M10
RV254*	M10
RV255*	M11
RV256*	M11
RV257*	M10
RV285*	K10
RW001*	D9
RW002*	C9
RW005*	A4
RW006	S10
RW008	R2
RW009	R2
RW012	P1
RW017*	A5
RW019*	C10
RW020*	B10

RW021	M0
RW024*	B9
RW025*	B9
RW029	Q0
RW030	Q1
RW031	Q0
RW032*	B4
RW033*	C9
RY001*	L4
RY002*	L4
RY003*	L4
RY004*	L4
RY006*	L4
RY007*	L4
RY009*	L4
RY010*	L5
RY011*	M5
RZ002*	P11
RZ003*	P11
RZ005*	R4
RZ007*	H4
RZ008*	H4
RZ010*	R3
RZ015	A4
RZ019*	R5
RZ020*	S6
RZ030*	R10
RZ031*	R10
RZ033*	S10
RZ034*	R10
RZ035*	R10
RZ036*	R10
RZ037*	S11
RZ050*	S3
RZ051*	S3
RZ052*	S5
RZ053*	S5
RZ054*	R3
RZ055*	S10
RZ056*	S5
RZ057*	S6
RZ059*	R4
RZ060*	R11
RZ065	G1
RZ066	G1

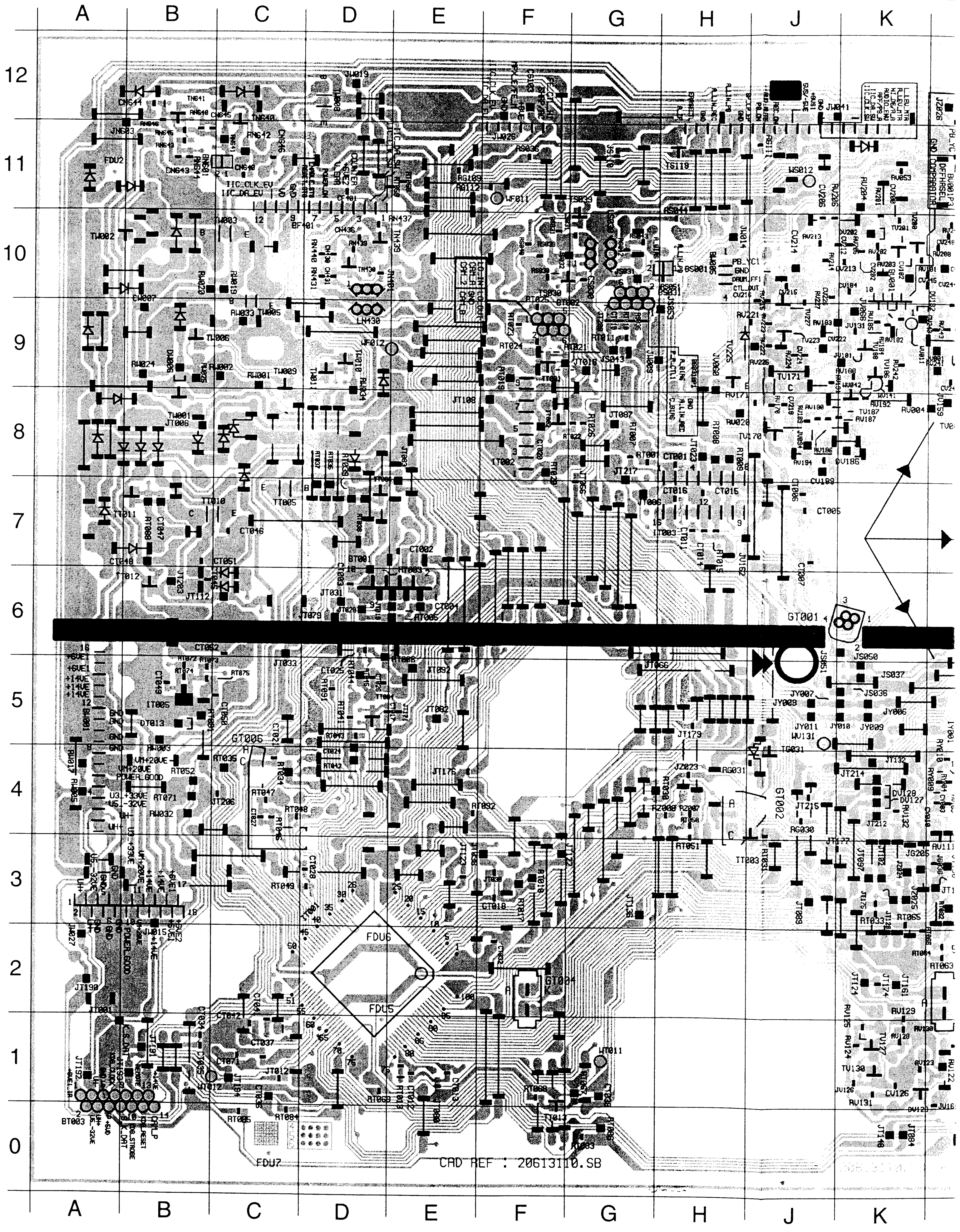
ST001	E12
ST001*	N0

GT001	J6
GT001*	J6
GT002	J9
GT002*	J4
GT003	H10
GT003*	L2
GT004*	F2
GT005	D7
GT005*	P4
GT006	Q8
GT006*	C5
TG029*	M5
TG030*	M4
TG031*	J5
TN438*	D10
TN439*	E10
TN640*	C12
TN641*	B12
TS030*	F10
TS039*	G11
TS101*	Q3
TS119*	H11
TT001*	F9
TT002*	F8
TT003*	J3
TT004*	D5
TT005	P5
TT005*	C7
TT006*	D8
TT010	Q5

TT010*	C7
TT011*	B7
TT012*	B7
TT013*	F1
TV002*	L8
TV003*	M8
TV006*	M8
TV011*	M8
TV024*	N5
TV028*	N10
TV030*	P10
TV036*	N11
TV047*	M10
TV055*	N11
TV103*	Q6
TV126*	P5
TV127*	K1
TV130*	K1
TV135*	M2
TV140*	M2
TV141*	N2
TV143*	M2
TV145*	M2
TV147*	M3
TV149*	N3
TV154*	N2
TV164*	M4
TV170*	J8
TV171	J3
TV171*	J9
TV186*	K9
TV187*	K8
TV188*	K9
TV200*	K11
TV201*	K11
TV223*	J9
TV225*	H9
TV227*	J10
TV243*	L9
TV248*	L10
TV250*	M11
TV251*	M10
TW001*	B8
TW002*	A10
TW003	Q1
TW003*	C10
TW005	Q2
TW005*	C9
TW006*	B9
TW008	P0
TW008*	D12
TW009*	C9
TZ001*	R4
TZ002*	Q3
TZ010*	R2
TZ019*	R4
TZ020*	R6
TZ031*	S9
TZ032*	R11
TZ050*	R3
TZ051*	S4
TZ055*	S5
TZ057*	R10

WS011	C10
WS011*	Q2
WS012	J1
WS012*	J11
WV011	G3
WV011*	K9
WV012	C3
WV012*	R9
WV021	D4
WV021*	P9
WV022	D3
WV022*	P9
WV031	C8
WV031*	Q4
WV032	F6
WV032*	M6

Main P.C.B. Solder side • Circuit imprimé de la platine principale • Piastra principale lato saldatura • Platina princ

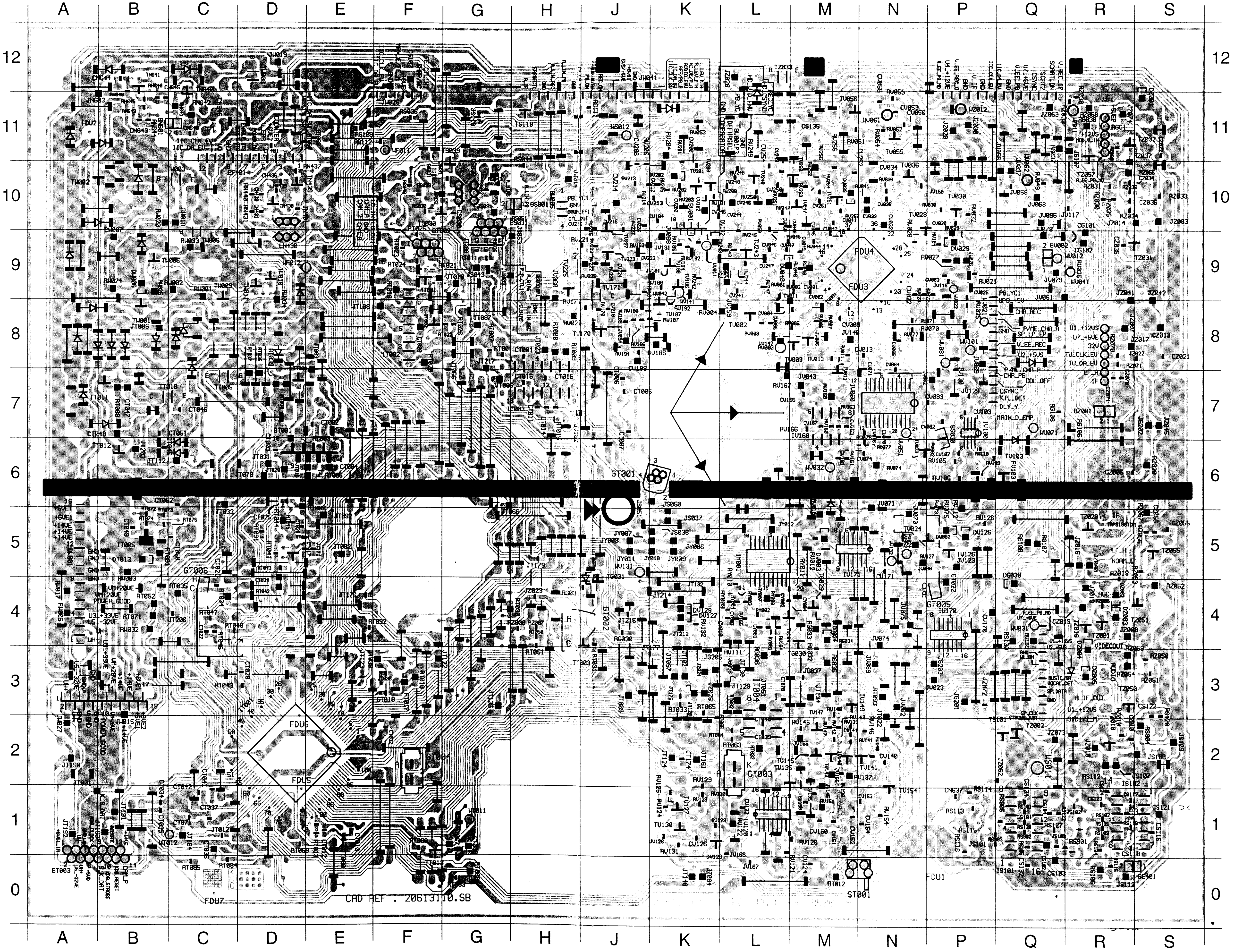


010*	C7
011*	B7
[illegible]	[illegible]
[illegible]	[illegible]
002*	L8
003*	M8
006*	M8
011*	M8
024*	N5
028*	N10
030*	P10
036*	N11
047*	M10
055*	N11
103*	Q6
126*	P5
127*	K1
130*	K1
135*	M2
140*	M2
141*	N2
143*	M2
145*	M2
147*	M3
49*	N3
54*	N2
64*	M4
70*	J8
71	J3
71*	J9
86*	K9
87*	K8
88*	K9
00*	K11
01*	K11
23*	J9
25*	H9
27*	J10
43*	L9
48*	L10
50*	M11
51*	M10
001*	B8
002*	A10
003	Q1
003*	C10
005	Q2
005*	C9
006*	B9
008	P0
008*	D12
009*	C9
01*	R4
02*	Q3
10*	R2
19*	R4
20*	R6
31*	S9
32*	R11
50*	R3
51*	S4
55*	S5
57*	R10

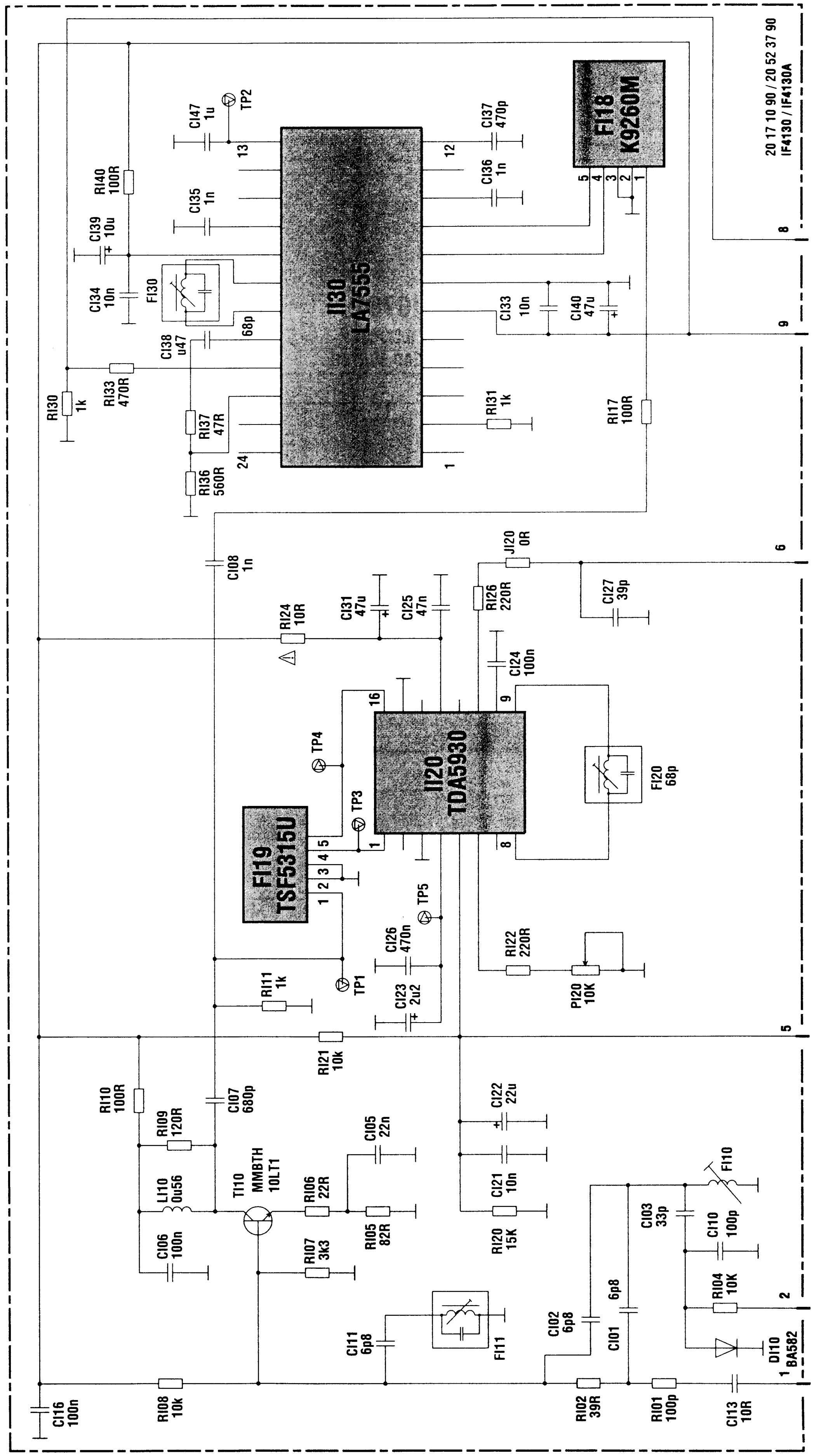
●—

011	C10
011*	Q2
012	J1
012*	J11
011	G3
011*	K9
012	C3
012*	R9
021	D4
021*	P9
022	D3
022*	P9
031	C8
031*	Q4
032	F6
032*	M6

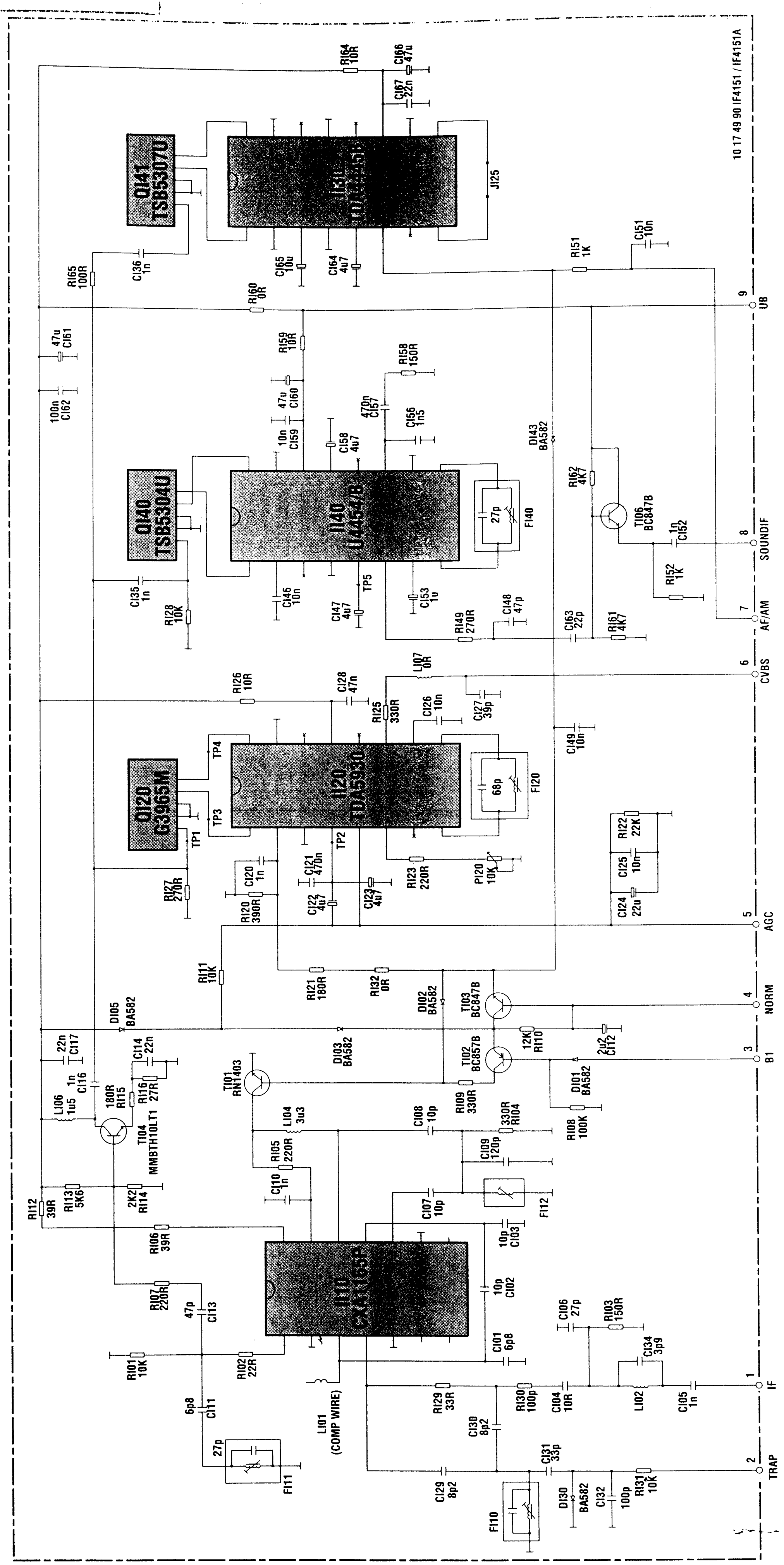
Main P.C.B. Solder side • Circuit imprimé de la platine principale côté cuivre • Hauptleiterplatte Lötseite
Piastra principale lato saldatura • Platina principal lado del cobre


A
B
C
D
E
F
G
H
J
K
L
M
N
P
Q
R
S
12
11
10
9
8
7
6
5
4
3
2
1
0
FDU1
FDU2
FDU3
FDU4
FDU5
FDU6
FDU7
GT001
ST001
CAD REF : 20613110.SB

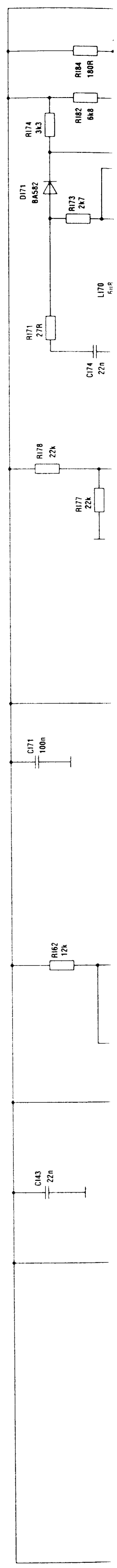
IF 4130 / 4130 A


20 17 10 90 / 20 52 37 90
IF4130 / IF4130A
I130
LA7555
F118
K9260M
I120
TDA5930
F119
TSF5315U
T110
MMBTH
10LT1
8 SOUND/IF
9 UB
6 CVBS
5 AGC
2 TRAP
1 IF

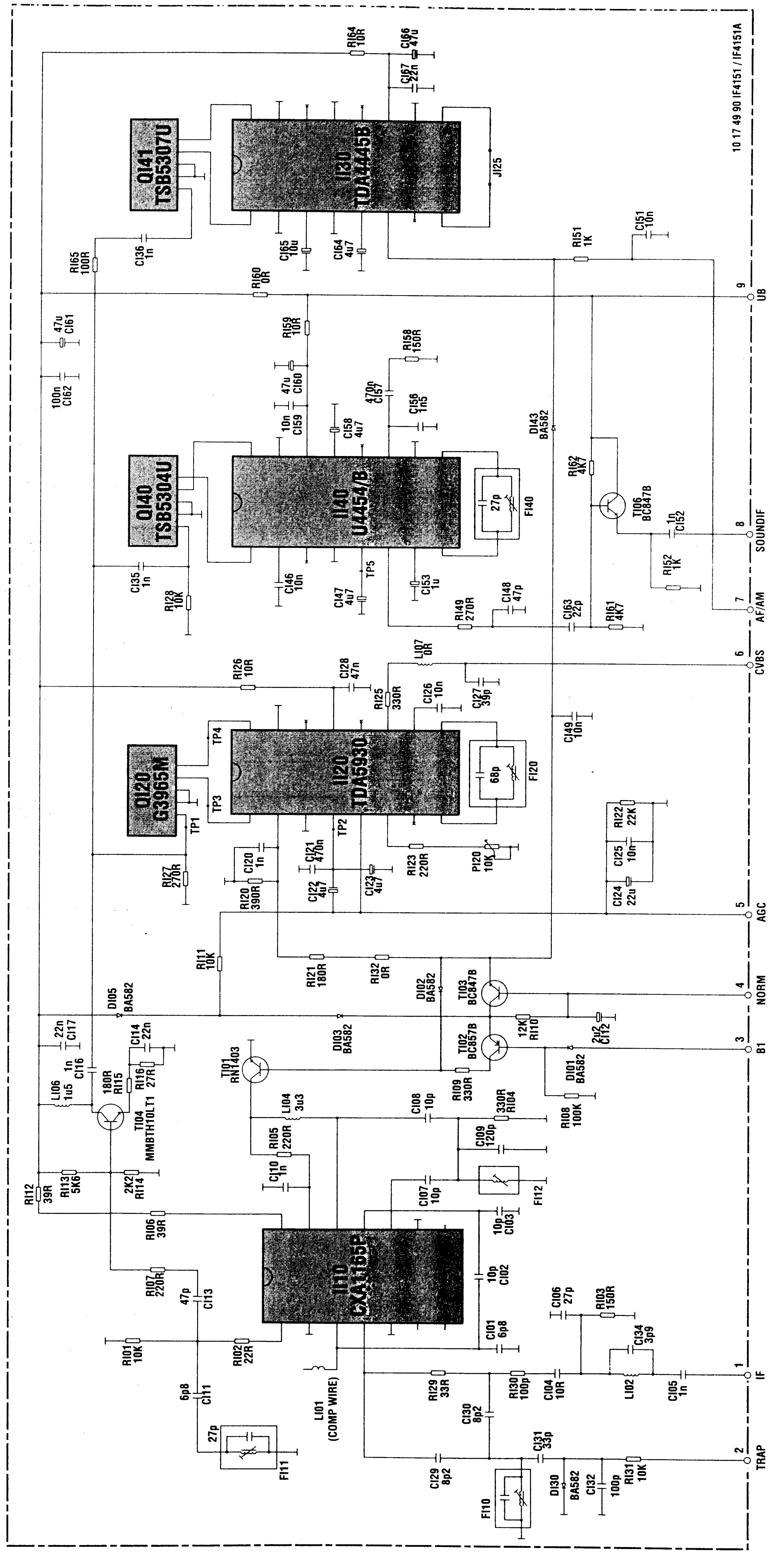
IF 4151 / 4151 A


10 17 49 90 IF4151 / IF4151A
Q141
TSB5307U
Q140
TSB5304U
I140
Q120
G3965M
I120
TDA5930
I110
T104
MMBTH10LT1
T101
RN1403
T102
BC857B
T103
BC847B
T106
BC847B
9 UB
8 SOUNDIF
7 AF/AM
6 CVBS
5 AGC
4 NORM
3 B1
1 IF
2 TRAP

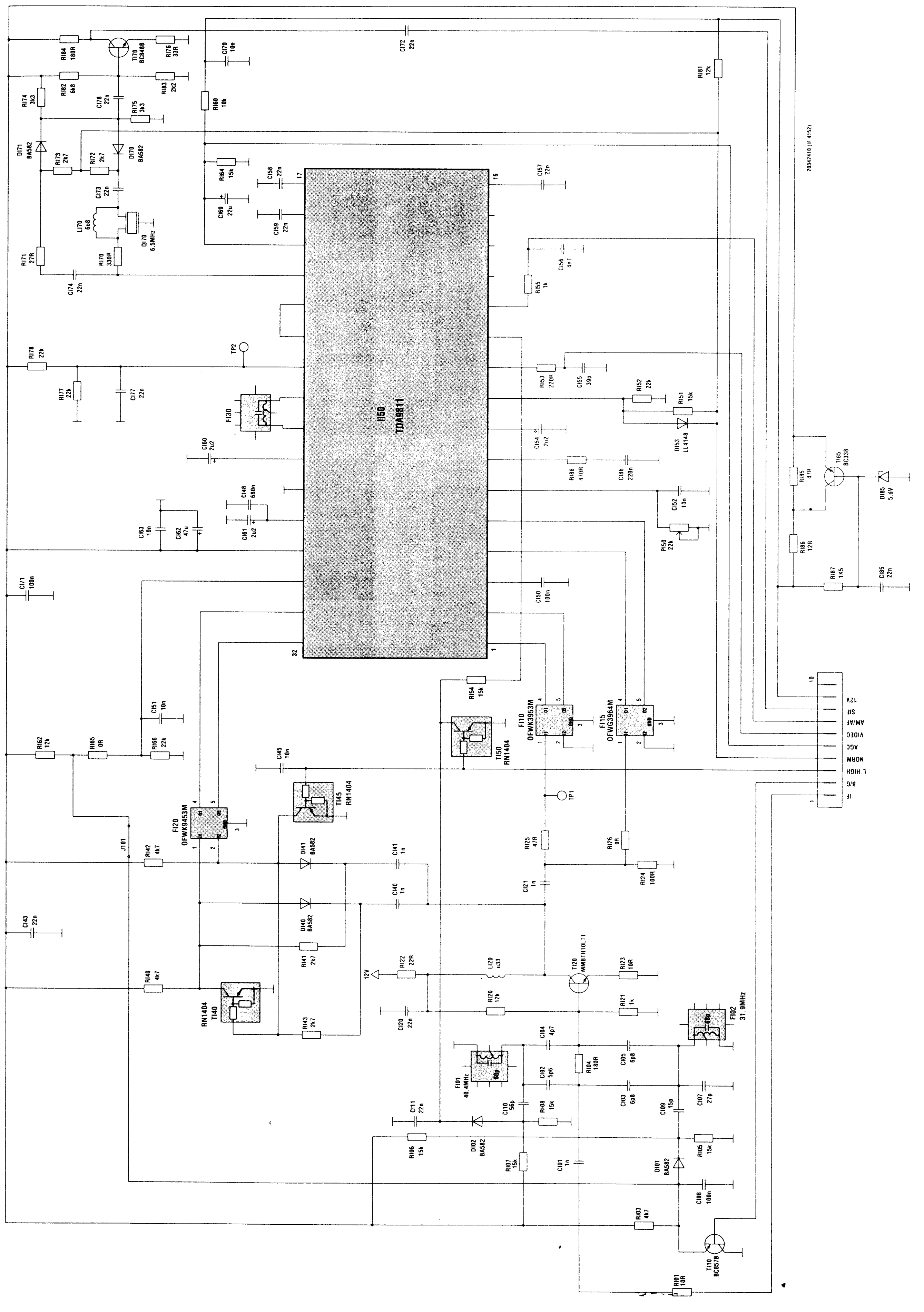
IF 4152



IF 4151 / 4151 A

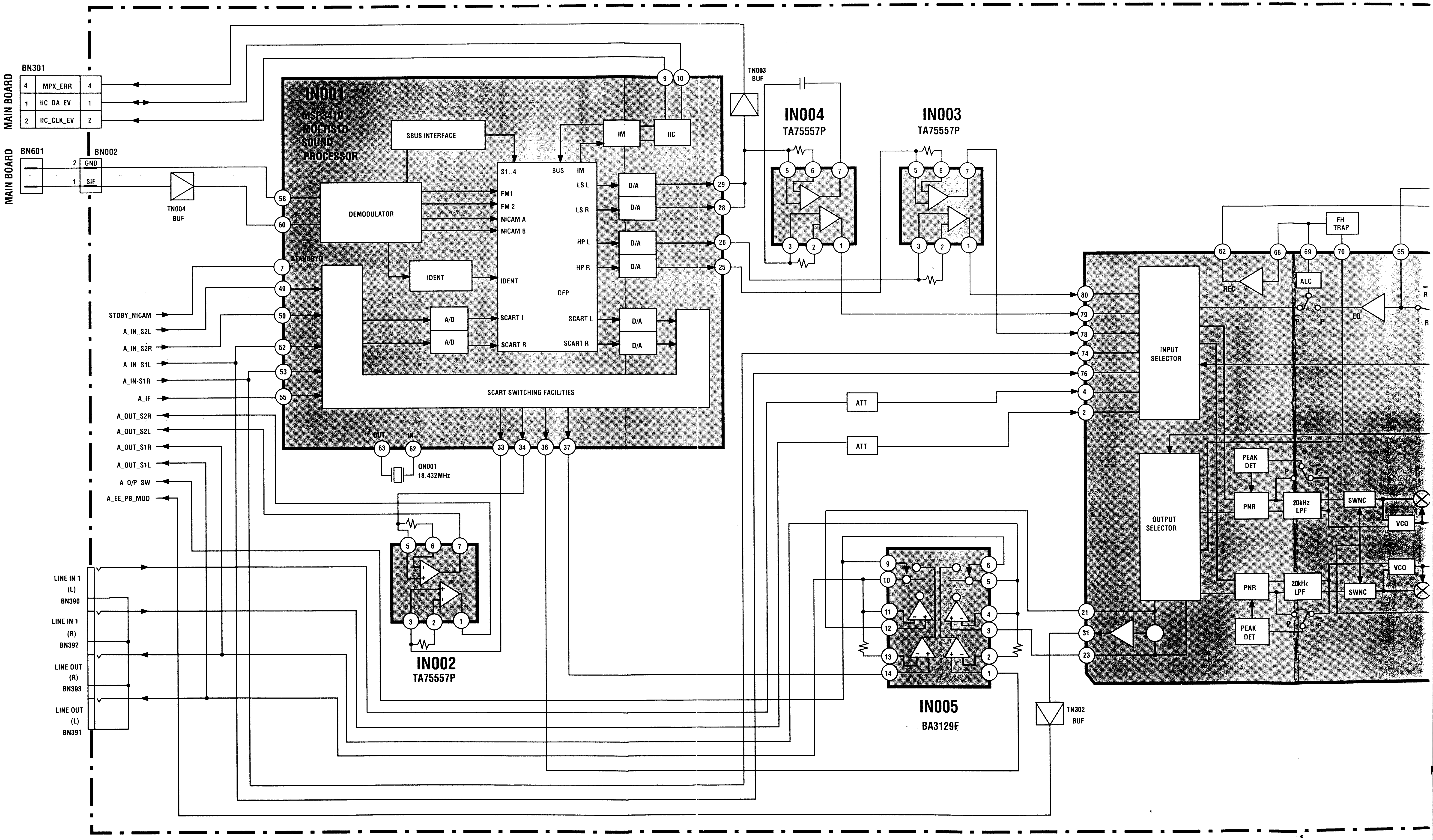

10 17 49 90 IF4151 / IF4151A
Q141 TSB5307U
I130 TDA4445B
Q140 TSB5304U
I140 U4454/B
Q120 G3965M
I120 TDA5930
I110 CXA1165P
T106 BC847B
T103 BC847B
T102 BC857B
T101 RN1403
T104 MMBTH10LT1
F140
F120
F112
F111
F110
L101 (COMP WIRE)
9 UB
8 SOUNDIF
7 AF/AM
6 CVBS
5 AGC
4 NORM
3 B1
1 IF
2 TRAP

IF 4152

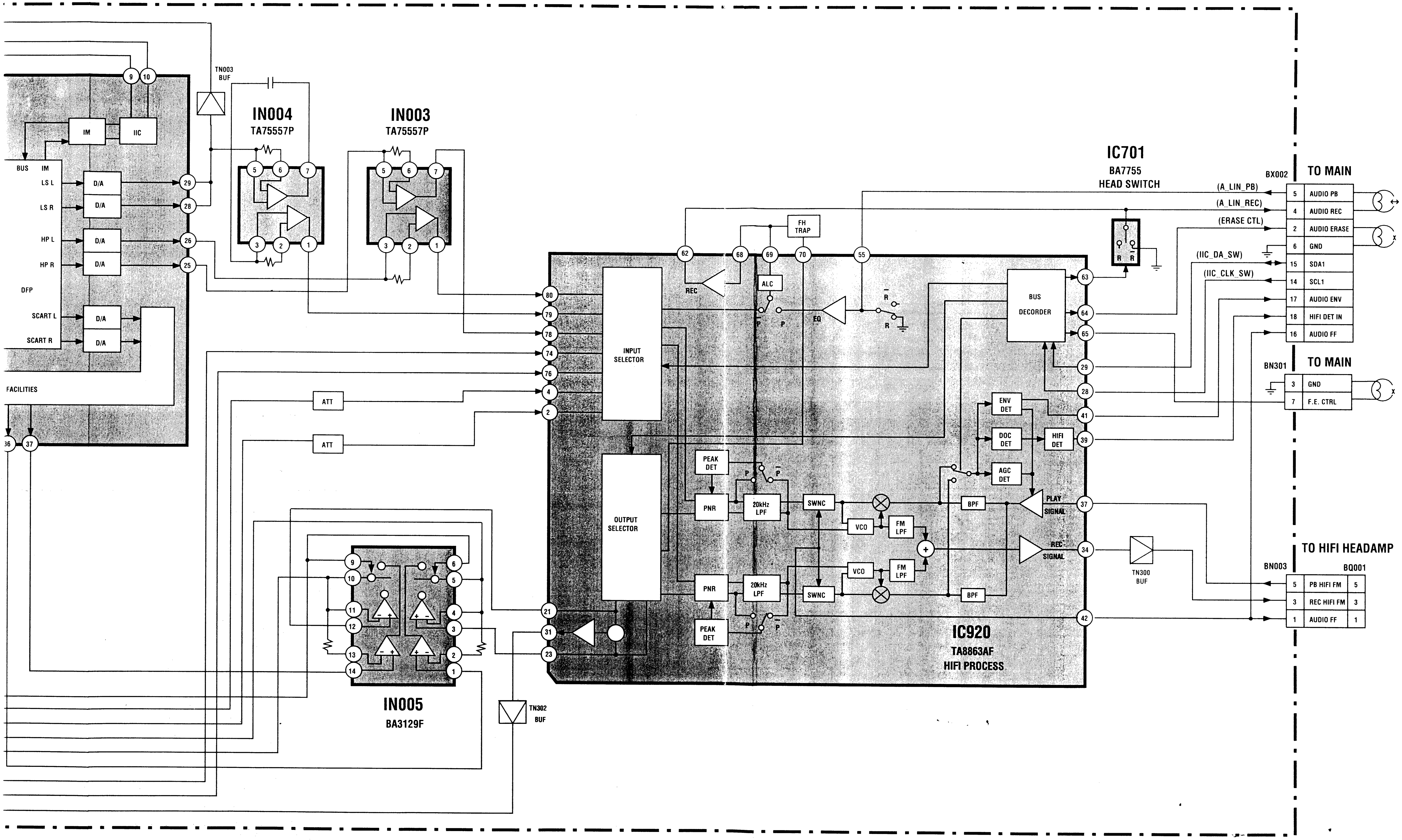

I150 TDA9811
F110 OFWK3953M
F115 OFWK3964M
F120 OFWK9453M
T150 RN1404
T145 RN1404
T140 RN1404
T120 MMBTH10LT1
T110 BC857B
T170 BC848B
T185 BC338
F130
F101 40.4MHz
F102 31.9MHz
TP1
TP2
12V
SIF
AM/AF
VIDEO
AGC
NORM
L HIGH
B/G
IF

AUDIO HIFI / SCART CONNECTION BOARD - PLATINE AUDIO HIFI / PRISES SCART - LEITERPLATTE AUDIO HIFI / SCART - PIASTRA AUDIO HIFI / SCART - PLATINA AUDIO

BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBILD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES


MAIN BOARD
BN301
4 MPX_ERR 4
1 IIC_DA_EV 1
2 IIC_CLK_EV 2
MAIN BOARD
BN601
BN002
2 GND
1 SIF
TN004
BUF
IN001
MSP3410
MULTISTD
SOUND
PROCESSOR
SBUS INTERFACE
IM
IIC
9
10
S1..4
BUS
IM
FM1
FM 2
NICAM A
NICAM B
LS L
LS R
HP L
HP R
D/A
DEMODULATOR
IDENT
DFP
STANDBYQ
A/D
SCART L
SCART R
SCART SWITCHING FACILITIES
58
60
7
49
50
52
53
55
29
28
26
25
OUT
IN
63
62
33
34
36
37
QN001
18.432MHz
STDBY_NICAM
A_IN_S2L
A_IN_S2R
A_IN_S1L
A_IN-S1R
A_IF
A_OUT_S2R
A_OUT_S2L
A_OUT_S1R
A_OUT_S1L
A_O/P_SW
A_EE_PB_MOD
LINE IN 1
(L)
BN390
LINE IN 1
(R)
BN392
LINE OUT
(R)
BN393
LINE OUT
(L)
BN391
TN003
BUF
IN004
TA75557P
IN003
TA75557P
IN002
TA75557P
5
6
7
3
2
1
ATT
ATT
IN005
BA3129F
9
10
11
12
13
14
6
5
4
3
2
1
TN302
BUF
62
68
69
70
55
FH
TRAP
REC
ALC
EQ
P
R
80
79
78
74
76
4
2
INPUT
SELECTOR
OUTPUT
SELECTOR
PEAK
DET
PNR
20kHz
LPF
SWNC
VCO
21
31
23

A BLOCCHI - ESQUEMA DE BLOQUES

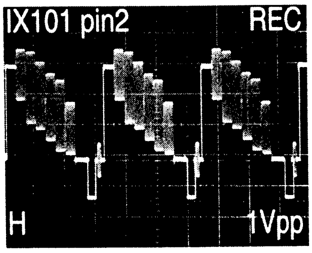

IM
IIC
BUS
IM
LS L
LS R
HP L
HP R
DFP
SCART L
SCART R
FACILITIES
D/A
9
10
29
28
26
25
36
37
TN003
BUF
IN004
TA75557P
IN003
TA75557P
IN005
BA3129F
TN302
BUF
ATT
ATT
IC701
BA7755
HEAD SWITCH
R
R
IC920
TA8863AF
HIFI PROCESS
INPUT SELECTOR
OUTPUT SELECTOR
REC
ALC
FH TRAP
EQ
P
R
BUS DECORDER
ENV DET
DOC DET
AGC DET
HIFI DET
PEAK DET
PNR
20kHz LPF
SWNC
VCO
FM LPF
BPF
PLAY SIGNAL
REC SIGNAL
TN300
BUF
62
68
69
70
55
63
64
65
29
28
41
39
37
34
42
80
79
78
74
76
4
2
21
31
23
BX002
TO MAIN
(A_LIN_PB)
(A_LIN_REC)
(ERASE CTL)
(IIC_DA_SW)
(IIC_CLK_SW)
5 AUDIO PB
4 AUDIO REC
2 AUDIO ERASE
6 GND
15 SDA1
14 SCL1
17 AUDIO ENV
18 HIFI DET IN
16 AUDIO FF
BN301
TO MAIN
3 GND
7 F.E. CTRL
TO HIFI HEADAMP
BN003
BQ001
5 PB HIFI FM 5
3 REC HIFI FM 3
1 AUDIO FF 1

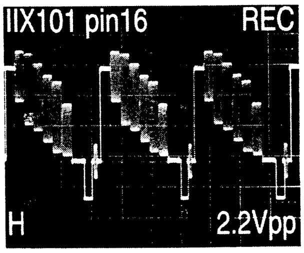
MEASUREMENTS AUDIO HIFI / SCART CONNECTION - MESURES AUDIO HIFI / PRISES SCART - MESSUNGEN LEITERPLATTE AUDIO HIFI / SCART - MISURI AUDIO HIFI / SCART - MEDIDAS AUDIO HIFI / SCART

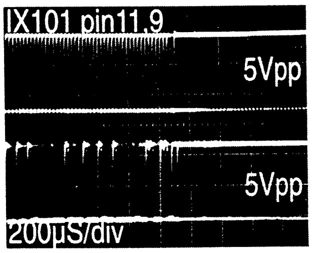
TMB		MODE		
LOC	PIN	EE	PLAY	REC.
IN001	1	0	0	0
	2	3.8	3.6	3.8
	3	3.8	3.6	3.8
	4	0	0	0
	5	5	5	5
	6	0	0	0
	7	5.8	5.8	5.8
	8	0	0	0
	9	4.6	4.6	4.6
	10	4.2	4.2	4.2
	11	2.5	2.5	2.5
	12	2.5	2.5	2.5
	13	4	4	4
	14	2.4	2.4	2.4
	15	2.4	2.4	2.4
	16	2.4	2.4	2.4
	17	1.6	1.6	1.6
	18	5	5	5
	19	0	0	0
	20	1.6	1.6	1.6
	21	-	-	-
	22	2.5	2.5	2.5
	23	-	-	-
	24	5	5	5
	25	2	2	2
	26	2	2	2
	27	0	0	0
	28	2	2	2
	29	1.9	1.9	1.9
	30	0	0	0
	31	3.8	3.8	3.8
	32	3.8	3.8	3.8
	33	3.8	3.8	3.8
	34	3.8	3.8	3.8
	35	0	0	0
	36	3.8	3.8	3.8
	37	3.8	3.8	3.8
	38	6.4	6.4	6.4
	39	8.3	8.3	8.3
	40	6.4	6.4	6.4
	41	0	0	0
	42	3.8	3.8	3.8
	43	3.8	3.8	3.8
	44	3.8	3.8	3.8
	45	3.8	3.8	3.8
	46	3.8	3.8	3.8
	47	3.8	3.8	3.8
	48	0	0	0
	49	3.8	3.8	3.8
	50	3.8	3.8	3.8
	51	0	0	0
	52	3.8	3.8	3.8
	53	3.8	3.8	3.8
	54	2.6	2.6	2.6
	55	3.8	3.8	3.8
	56	0	0	0
	57	5	5	5
	58	0	0	0
	59	1.5	1.5	1.5
	60	1.5	1.5	1.5
	61	0	0	0
	62	2.6	2.6	2.6
	63	2.6	2.6	2.6
	64	0	0	0
IN002	1	6.3	6.3	6.3
	2	6.3	6.3	6.3
	3	6.1	6.1	6.1
	4	0	0	0
	5	6.1	6.1	6.1
	6	6.3	6.3	6.3
	7	6.3	6.3	6.3
	8	12.6	12.6	12.6
IN003	1	4.4	4.4	4.4
	2	4.4	4.4	4.4
	3	4.2	4.2	4.2
	4	0	0	0
	5	4.2	4.2	4.2
	6	4.4	4.4	4.4
	7	4.4	4.4	4.4
	8	8.7	8.7	8.7
IN004	1	4.4	4.4	4.4
	2	4.4	4.4	4.4
	3	4.3	4.3	4.3
	4	0	0	0
	5	4.1	4.1	4.1
	6	4.4	4.4	4.4
	7	4.4	4.4	4.4
	8	8.7	8.7	8.7
IN005	1	6.7	6.7	6.7
	2	6.7	6.7	6.7
	3	6.7	6.7	6.7
	4	6.9	6.9	6.9
	5	6.9	6.9	6.9
	6	7.2	7.2	7.2
	7	0	0	0
	8	12.5	12.5	12.5
	9	7.2	7.2	7.2
	10	6.9	6.9	6.9
	11	6.9	6.9	6.9
	12	6.7	6.7	6.7
	13	6.9	6.9	6.9
	14	6.7	6.7	6.7

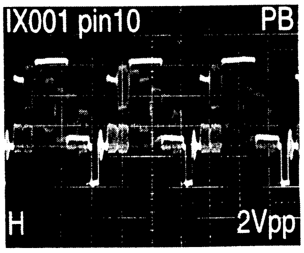
MEASUREMENTS AUDIO HIFI / SCART CONNECTION - MESURES AUDIO HIFI / PRISES SCART - MESSUNGEN LEITERPLATTE AUDIO HIFI / SCART - MISURI AUDIO HIFI / SCART - MEDIDAS AUDIO HIFI /SCART

TMB		MODE		
LOC	PIN	EE	PLAY	REC.
IN006	1	8.5	8.5	8.5
	2	0	0	0
	3	0	0	0
	4	0	0	0
	5	5.3	5.3	5.3
IX101	1	0	0	0
	2	1.2	1.2	1.2
	3	5.8	5.8	5.8
	4	1.6	1.6	1.6
	5	5.8	5.8	5.8
	6	1.8	1.8	1.8
	7	3.7	3.7	3.7
	8	1.4	1.4	1.4
	9	0	0	0
	10	2.4	2.4	2.4
	11	0	0	0
	12	1.4	1.4	1.4
	13	0	0	0
	14	0	0	0
	15	1.3	1.3	1.3
	16	1.8	1.8	1.8
	17	0	0	0
	18	5.8	5.8	5.8
	19	5.8	5.8	5.8
	20	5.8	5.8	5.8
TN001	E	0	0	0
	B	3.7	3.7	3.7
	C	0	0	0
TN002	E	0	0	0
	B	0	0	0
	C	5	5	5
TN003	E	0	0	0
	B	0.6	0.6	0.6
	C	0	0	0
TN004	E	4.1	4.1	4.1
	B	4.7	4.7	4.7
	C	8.4	8.4	8.4
TN300	E	0.6	0.6	1.2
	B	0	0	0.6
	C	0	0	0
TN302	E	4.9	4.9	4.9
	B	4.3	4.3	4.3
	C	0	0	0





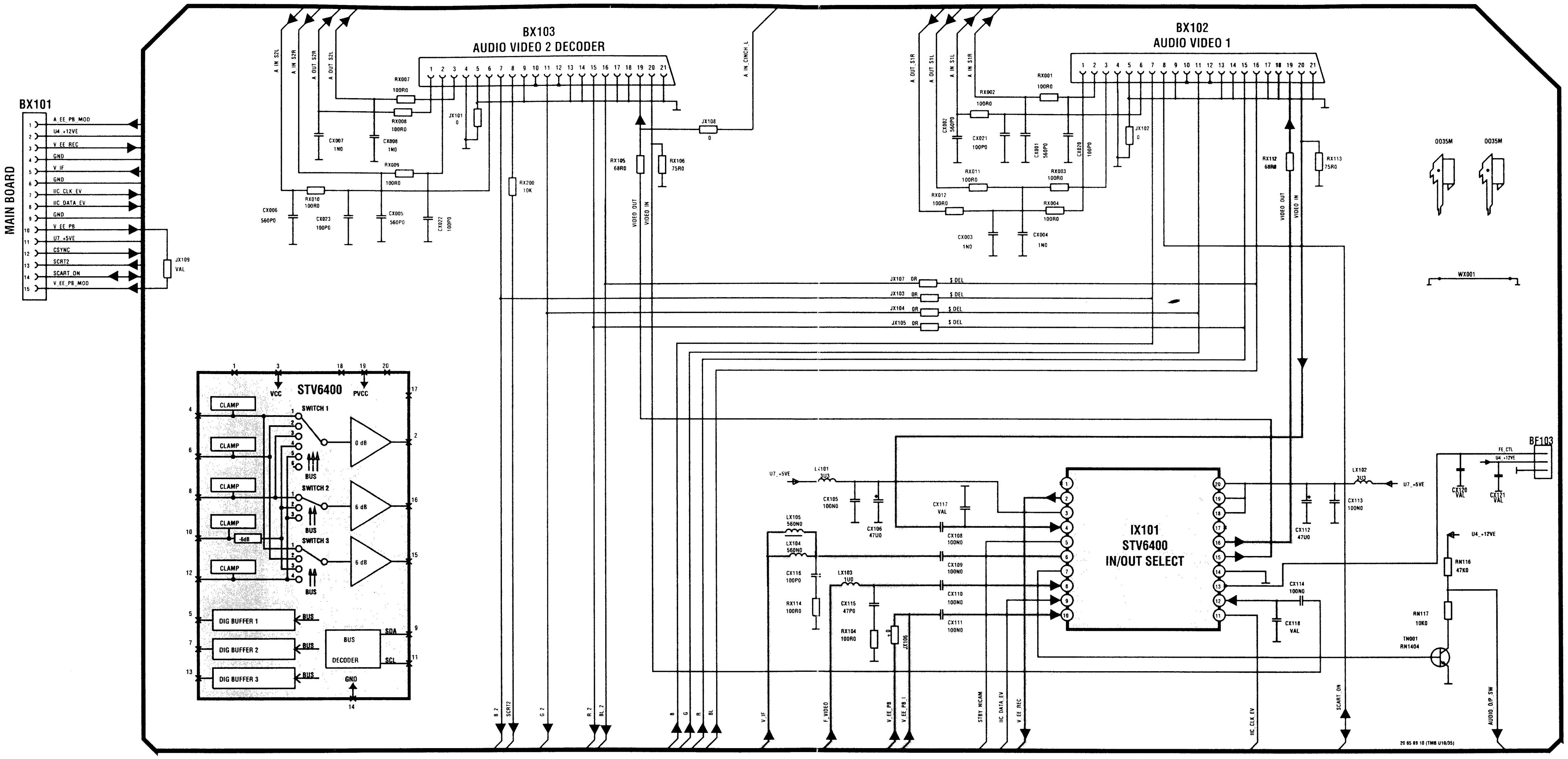




AUDIO HIFI / SCART CONNECTION BOARD - PLATINE AUDIO HIFI / PRISES SCART - LEITERPLATTE AUDIO HIFI / SCART - PIASTRA AUDIO HIFI / SCART - PLATINA AUDIO HIFI / SCART

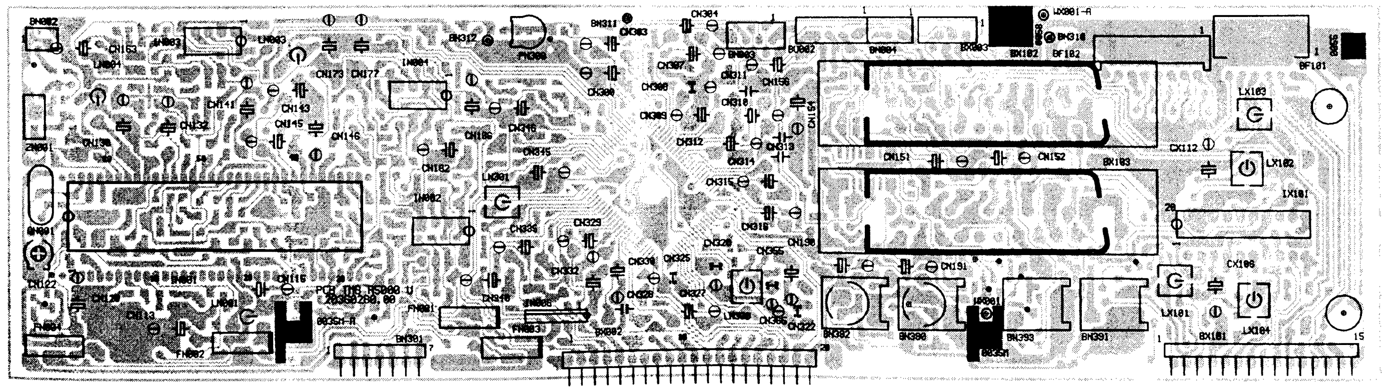
SCHEMATIC DIAGRAM (SCART CONNECTION) - SCHEMA DE PRINCIPE (SCART) - SCHALTBILD (SCART) - SCHEMA (SCART) - ESQUEMA (SCART)

VPH 6600 N - VPH 6601 - M 9560 HIFI/SA - T 8006 HIFI - V 3450 SV - VR 6081 - VR 6087/F - VR 7081 - VR 8083H - VR 8087

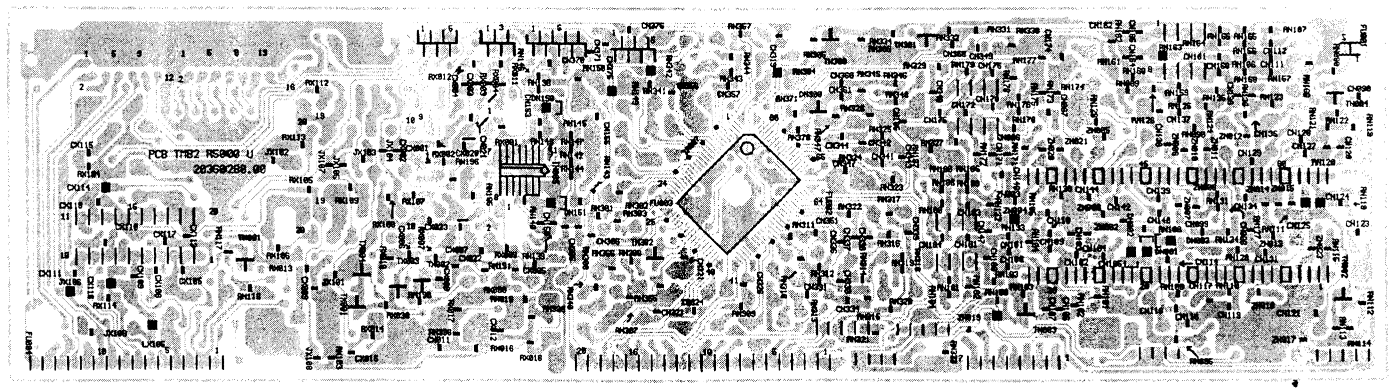


BX101
MAIN BOARD
A_EE_PB_MOD
U4 +12VE
V_EE_REC
GND
V_IF
IIC_CLK_EV
IIC_DATA_EV
V_EE_PB
U7 +5VE
CSYNC
SCRT2
SCART_ON
V_EE_PB_MOD
BX103
AUDIO VIDEO 2 DECODER
BX102
AUDIO VIDEO 1
A IN S2L
A IN S2R
A OUT S2R
A OUT S2L
A IN CINCH L
A OUT S1R
A OUT S1L
A IN S1L
A IN S1R
VIDEO OUT
VIDEO IN
STV6400
VCC
PVCC
CLAMP
SWITCH 1
SWITCH 2
SWITCH 3
BUS
0 dB
6 dB
DIG BUFFER 1
DIG BUFFER 2
DIG BUFFER 3
BUS DECODER
SDA
SCL
GND
IX101
STV6400
IN/OUT SELECT
BF103
WX001
0035M
TN001
R 2
SCRT2
G 2
B 2
BL 2
B
G
R
BL
V_IF
F_VIDEO
V_EE_PB
V_EE_PB_I
STBY NICAM
IIC DATA EV
V EE REC
IIC CLK EV
SCART ON
AUDIO O/P SW

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes



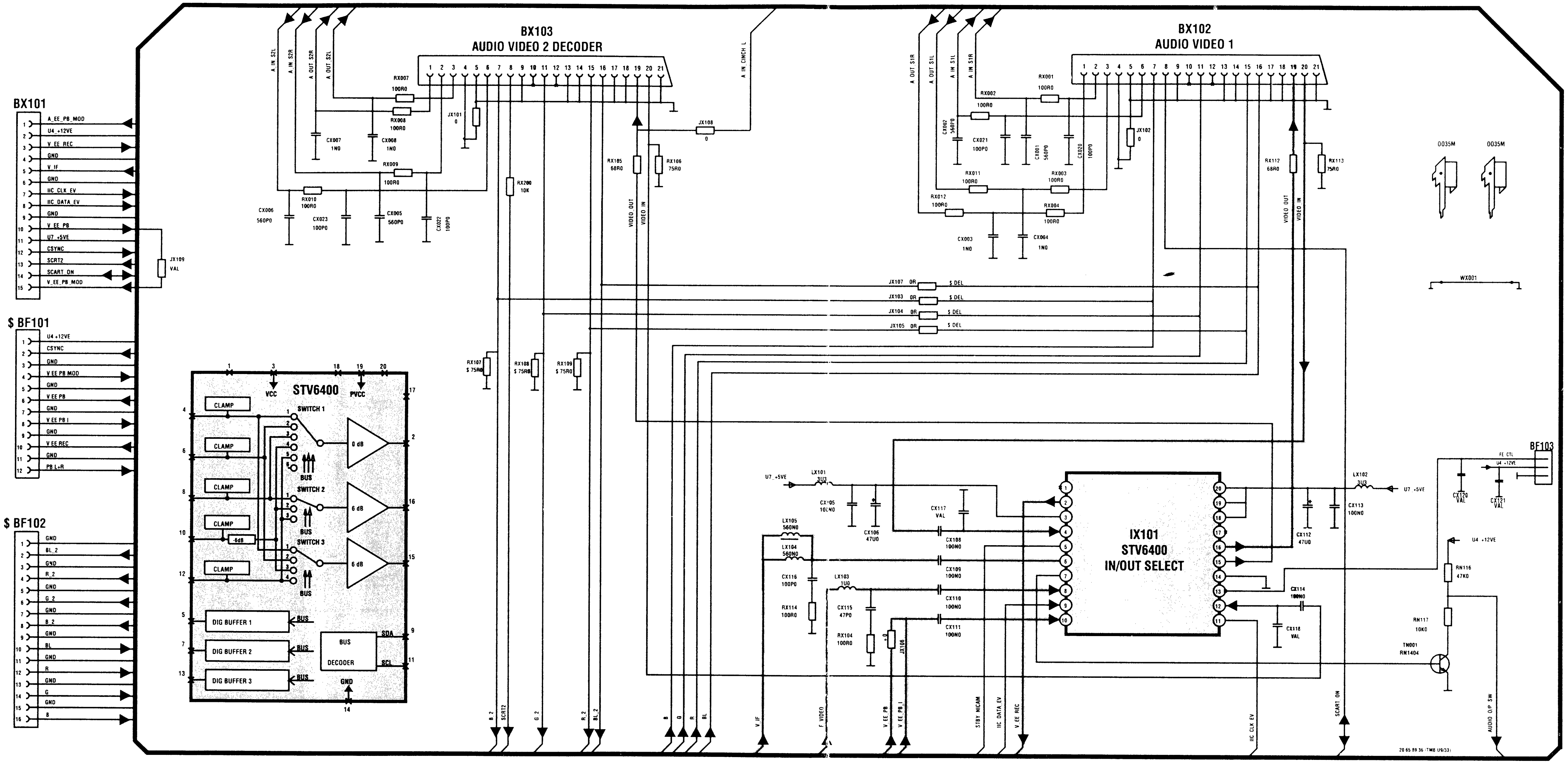
Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre



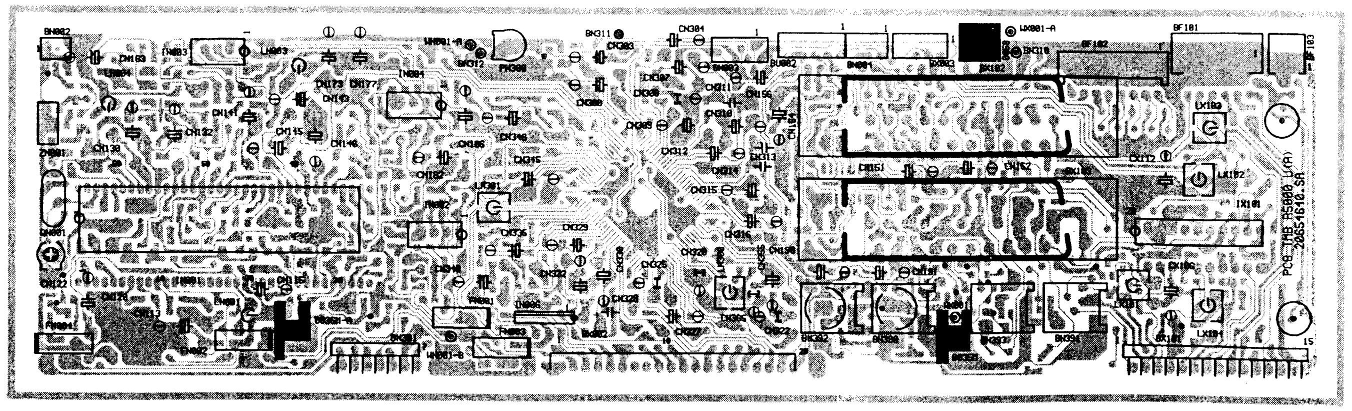
AUDIO HIFI / SCART CONNECTION BOARD - PLATINE AUDIO HIFI / PRISES SCART - LEITERPLATTE AUDIO HIFI / SCART - PIASTRA AUDIO HIFI / SCART - PLATINA AUDIO HIFI / SCART

SCHEMATIC DIAGRAM (SCART CONNECTION) - SCHEMA DE PRINCIPE (SCART) - SCHALTBILD (SCART) - SCHEMA (SCART) - ESQUEMA (SCART)

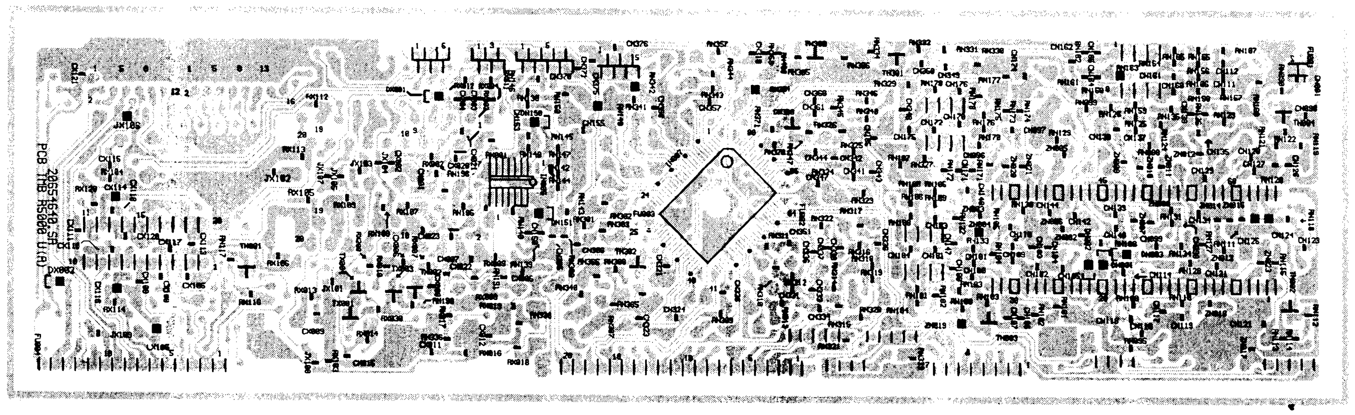
VPH 6680 - VP 6697SENSAR - VPH 6750 - VPH 6751 - VPH 6780 - VPH 6790 - M 9571 HIFI - M 9680 HIFI


BX101
A_EE_PB_MOD
U4_+12VE
V_EE_REC
GND
V_IF
HC_CLK_EV
HC_DATA_EV
V_EE_PB
U7_+5VE
CSYNC
SCRT2
SCART_ON
V_EE_PB_MOD
JX109
VAL
$ BF101
$ BF102
BX103
AUDIO VIDEO 2 DECODER
A_IN_S2L
A_IN_S2R
A_OUT_S2R
A_OUT_S2L
A_IN_CINCH_L
BX102
AUDIO VIDEO 1
A_OUT_S1R
A_OUT_S1L
A_IN_S1L
A_IN_S1R
STV6400
VCC
PVCC
CLAMP
SWITCH 1
SWITCH 2
SWITCH 3
0 dB
6 dB
BUS
DIG BUFFER 1
DIG BUFFER 2
DIG BUFFER 3
BUS DECODER
SDA
SCL
GND
VIDEO_OUT
VIDEO_IN
JX107
JX103
JX104
JX105
$ DEL
WX001
BF103
IX101
STV6400
IN/OUT SELECT
U7_+5VE
U4_+12VE
TN001
RN1404
R_2
SCRT2
G_2
BL_2
B
G
R
BL
V_IF
F_VIDEO
V_EE_PB
V_EE_PB_I
STBY_NICAM
HC_DATA_EV
V_EE_REC
HC_CLK_EV
SCART_ON
AUDIO_O/P_SW

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

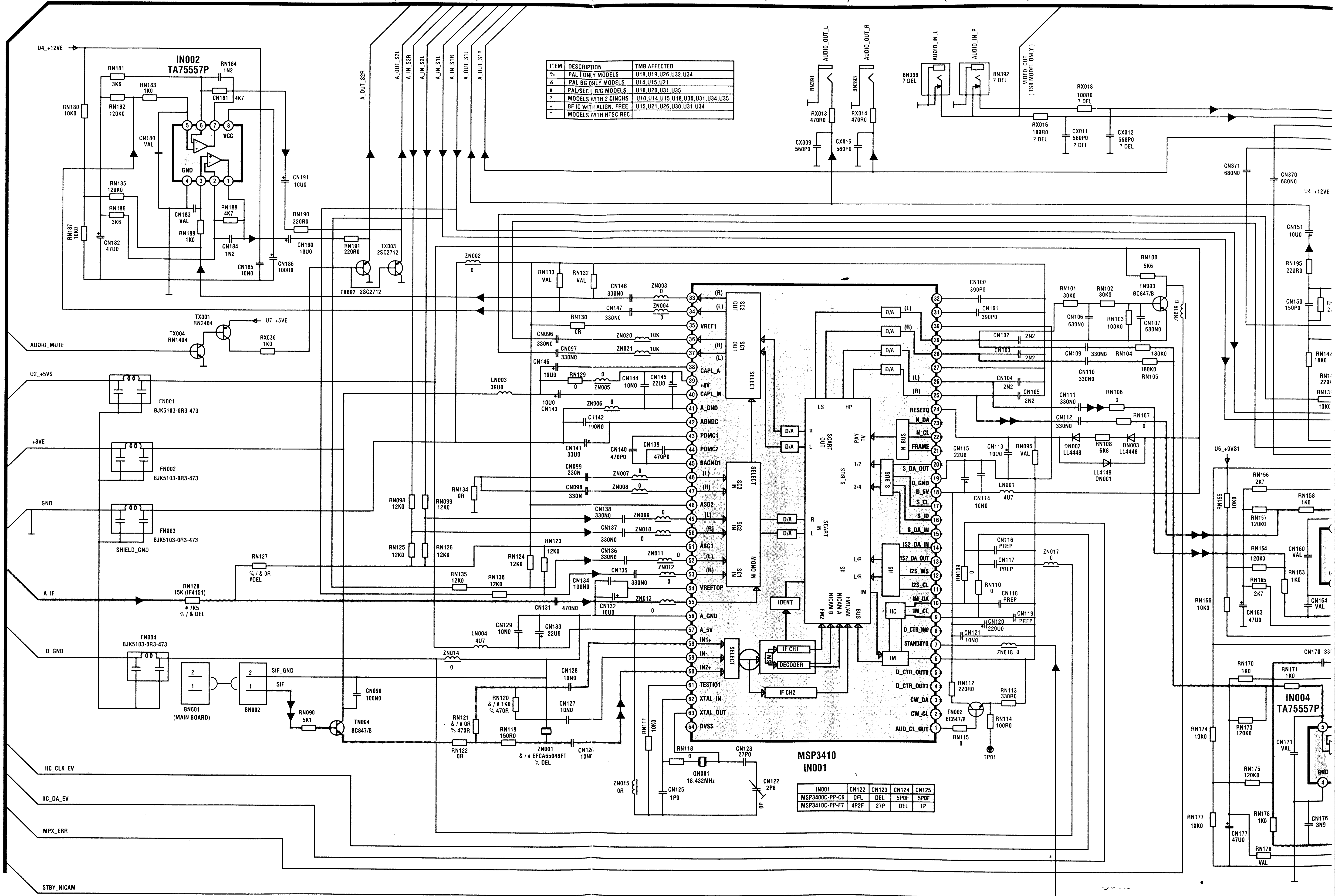


Solder side -Côté cuivre - Lötseite - Lato saldatura - Lado del cobre



AUDIO HIFI / SCART CONNECTION BOARD - PLATINE AUDIO HIFI / PRISES SCART - LEITERPLATTE AUDIO HIFI / SCART - PIASTRA AUDIO HIFI / SCART - PLATINA

SCHEMATIC DIAGRAM (AUDIO HIFI) - SCHEMA DE PRINCIPE (AUDIO HIFI) - SCHALTBILD (AUDIO HIFI) - SCHEMA (AUDIO HIFI) - ESQUEMA (AUDIO HIFI) M 9560 HIFI/SA - T 8006 HIFI - VPH 6600N

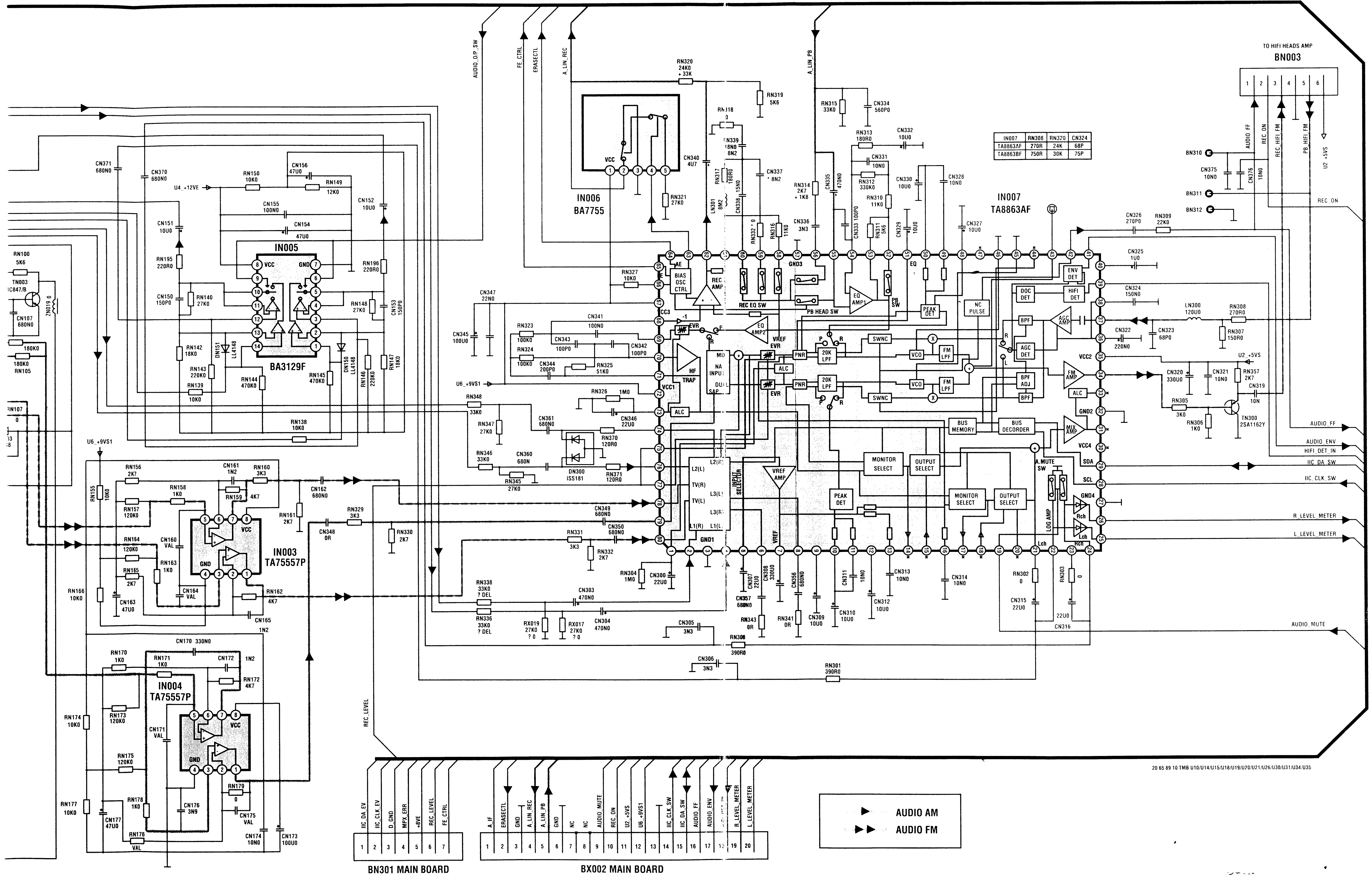


U4_+12VE
IN002
TA75557P
RN181 3K6
RN183 1K0
RN184 1N2
CN181 4K7
RN180 10K0
RN182 120K0
CN180 VAL
VCC
GND
CN191 10U0
RN185 120K0
RN186 3K6
RN187 10K0
CN182 47U0
CN183 VAL
RN188 4K7
RN189 1K0
CN184 1N2
CN185 10N0
CN186 100U0
RN190 220R0
CN190 10U0
RN191 220R0
TX003 2SC2712
TX002 2SC2712
A_OUT_S2R
A_OUT_S2L
A_IN_S2R
A_IN_S2L
A_IN_S1L
A_IN_S1R
A_OUT_S1L
A_OUT_S1R
TX001 RN2404
TX004 RN1404
U7_+5VE
RX030 1K0
AUDIO_MUTE
U2_+5VS
FN001 BJK5103-0R3-473
+8VE
FN002 BJK5103-0R3-473
GND
FN003 BJK5103-0R3-473
SHIELD_GND
A_IF
RN127 % / & 0R #DEL
RN128 15K (IF4151) # 7K5 % / & DEL
D_GND
FN004 BJK5103-0R3-473
BN601 (MAIN BOARD)
BN002
SIF_GND
SIF
RN090 5K1
TN004 BC847/B
CN090 100N0
IIC_CLK_EV
IIC_DA_EV
MPX_ERR
STBY_NICAM
AUDIO_OUT_L
AUDIO_OUT_R
AUDIO_IN_L
AUDIO_IN_R
VIDEO_OUT (TSB MODEL ONLY)
BN391
BN393
BN390 ? DEL
BN392 ? DEL
RX013 470R0
RX014 470R0
CX009 560P0
CX016 560P0
RX018 100R0 ? DEL
RX016 100R0 ? DEL
CX011 560P0 ? DEL
CX012 560P0 ? DEL
CN371 680N0
CN370 680N0
ZN002 0
RN133 VAL
RN132 VAL
CN148 330N0
ZN003 0
CN147 330N0
ZN004 0
RN130 0R
CN096 330N0
ZN020 10K
CN097 330N0
ZN021 10K
CN146 10U0
RN129 0
ZN005 0
CN144 10N0
CN145 22U0
LN003 39U0
CN143 10U0
ZN006 0
CN142 100N0
CN141 33U0
CN140 470P0
CN139 470P0
CN099 330N
ZN007 0
CN098 330N
ZN008 0
RN134 0R
RN098 12K0
RN099 12K0
CN138 330N0
ZN009 0
CN137 330N0
ZN010 0
RN123 12K0
RN125 12K0
RN126 12K0
RN124 12K0
CN136 330N0
ZN011 0
ZN012 0
RN135 12K0
RN136 12K0
CN135 330N0
CN134 100N0
CN131 470N0
CN132 10U0
ZN013 0
CN129 10N0
CN130 22U0
LN004 4U7
ZN014 0
CN128 10N0
RN120 & / # 1K0 % 470R
CN127 10N0
RN121 & / # 0R % 470R
RN119 150R0
RN122 0R
ZN001 & / # EFCA65048FT % DEL
CN126 10N0
RN111 10K0
ZN015 0R
RN118 0
QN001 18.432MHz
CN123 27P0
CN125 1P0
CN122 2P8
33 (R) 34 (L) 35 VREF1 36 (R) 37 (L) 38 CAPL_A 39 +8V 40 CAPL_M 41 A_GND 42 AGNDC 43 PDMC1 44 PDMC2 45 BAGND1 46 (L) 47 (R) 48 ASG2 49 (L) 50 (R) 51 ASG1 52 (L) 53 (R) 54 VREFTOP 55 56 A_GND 57 A_5V 58 IN1+ 59 IN- 60 IN2+ 61 TESTIO1 62 XTAL_IN 63 XTAL_OUT 64 DVSS
32 31 (L) 30 (R) 29 28 27 26 (L) 25 (R) 24 RESETQ 23 N_DA 22 N_CL 21 FRAME 20 S_DA_OUT 19 18 D_GND 17 D_5V 16 S_CL 15 S_ID S_DA_IN 14 IS2_DA_IN 13 IS2_DA_OUT 12 I2S_WS 11 I2S_CL 10 IM_DA 9 IM_CL 8 D_CTR_INO 7 STANDBYQ 6 5 D_CTR_OUT0 4 D_CTR_OUT1 3 CW_DA 2 CW_CL 1 AUD_CL_OUT
SC2 OUT
SC1 OUT
SELECT
SC3 IN
SC2 IN
SC1 IN
MONO IN
D/A
LS HP
SCART OUT
PAY TV
S_BUS
N_BUS
SCART IN
I2S
IIC
IM
IDENT
IF CH1
DECODER
IF CH2
FM1/AM NICAM A NICAM B FM2
MSP3410
IN001
CN100 390P0
CN101 390P0
CN102 2N2
CN103 2N2
CN104 2N2
CN105 2N2
CN115 22U0
CN113 10U0
RN095 VAL
LN001 4U7
CN114 10N0
CN116 PREP
CN117 PREP
ZN017 0
RN109 0
RN110 0
CN118 PREP
CN119 PREP
CN120 220U0
CN121 10N0
ZN018 0
RN112 220R0
RN113 330R0
TN002 BC847/B
RN114 100R0
RN115 0
TP01
RN100 5K6
TN003 BC847/B
RN101 30K0
RN102 30K0
ZN019 0
CN106 680N0
RN103 100K0
CN107 680N0
CN109 330N0
RN104 180K0
CN110 330N0
RN105 180K0
CN111 330N0
RN106 0
CN112 330N0
RN107 0
DN002 LL4448
RN108 6K8
DN003 LL4448
DN001 LL4148
CN151 10U0
RN195 220R0
CN150 150P0
U6_+9VS1
RN155 10K0
RN156 2K7
RN158 1K0
RN157 120K0
RN164 120K0
CN160 VAL
RN163 1K0
RN165 2K7
RN166 10K0
CN163 47U0
CN164 VAL
CN170
RN170 1K0
RN171 1K0
IN004
TA75557P
RN174 10K0
RN173 120K0
CN171 VAL
RN175 120K0
RN177 10K0
CN177 47U0
RN178 1K0
CN176 3N9
RN176 VAL

ITEM	DESCRIPTION	TMB AFFECTED
%	PAL I ONLY MODELS	U18,U19,U26,U32,U34
&	PAL BG ONLY MODELS	U14,U15,U21
#	PAL/SEC L,B/G MODELS	U10,U20,U31,U35
?	MODELS WITH 2 CINCHS	U10,U14,U15,U18,U30,U31,U34,U35
+	BF IC WITH ALIGN. FREE	U15,U21,U26,U30,U31,U34
*	MODELS WITH NTSC REC.	

IN001	CN122	CN123	CN124	CN125
MSP3400C-PP-C6	DFL	DEL	5P0F	5P0F
MSP3410C-PP-F7	4P2F	27P	DEL	1P

A - T 8006 HIFI - VPH 6600N - VPH 6601 - V 3450 SV - VR 6081 - VR 6087/F - VR 7081 - VR 8083SH - VR 8087

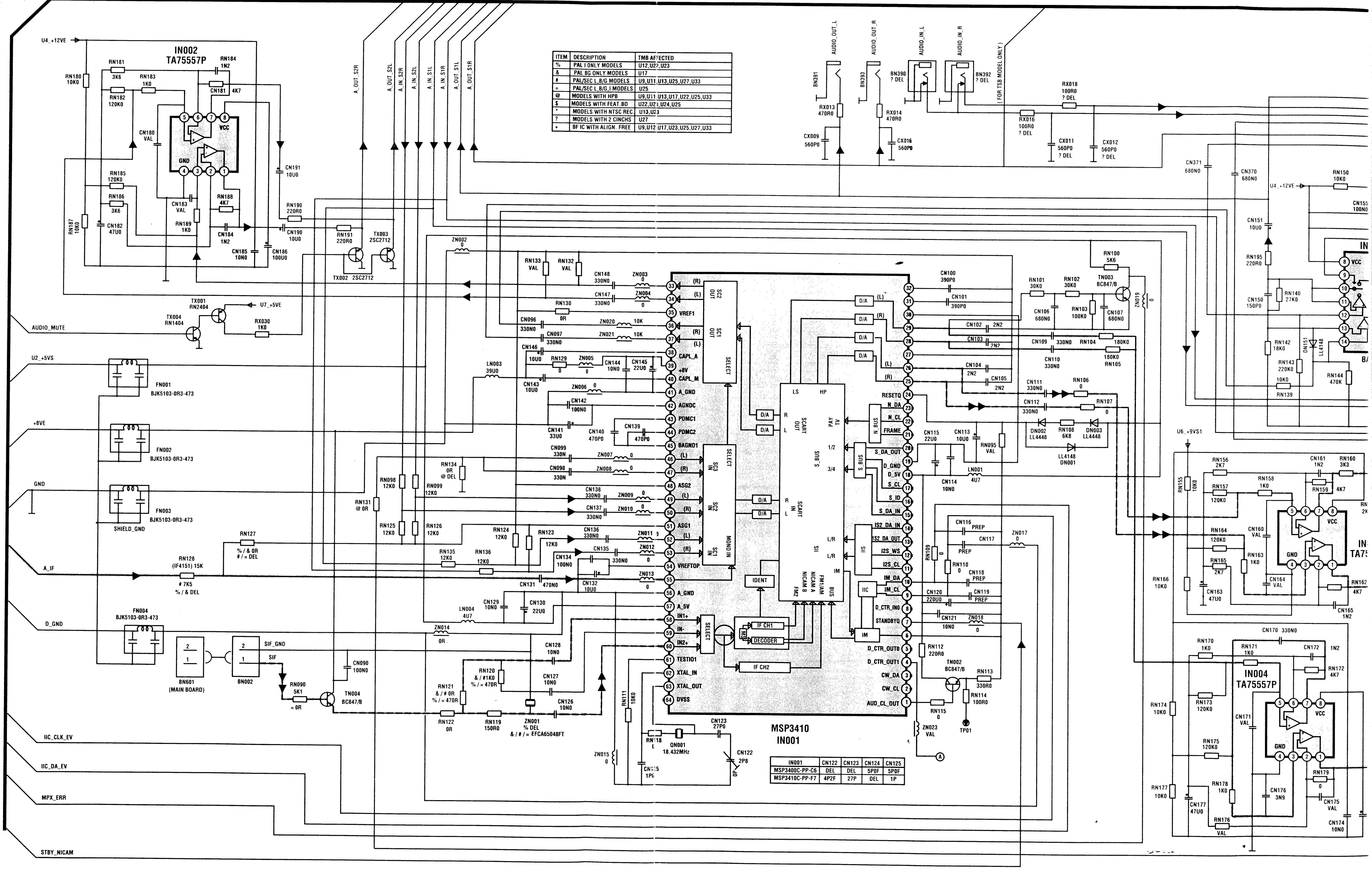

IN005
BA3129F
IN006
BA7755
IN003
TA75557P
IN004
TA75557P
IN007
TA8863AF
TO HIFI HEADS AMP
BN003
AUDIO FF
REC ON
REC_HIFI_FM
PB_HIFI_FM
U2 +5VS
BN310
BN311
BN312
AUDIO_O/P_SW
FE_CTRL
ERASECTL
A_LIN_REC
A_LIN_PB
U4 +12VE
U6 +9VS1
U2 +5VS
AUDIO_FF
AUDIO_ENV
HIFI_DET_IN
IIC_DA_SW
IIC_CLK_SW
R_LEVEL_METER
L_LEVEL_METER
AUDIO_MUTE
REC_LEVEL
BIAS OSC CTRL
REC AMP
REC EQ SW
PB HEAD SW
EQ AMP1
PB SW
PEAK DET
NC PULSE
DOC DET
HIFI DET
ENV DET
BPF
AGC AMP
AGC DET
BPF ADJ
ALC
FM AMP
MIX AMP
BUS MEMORY
BUS DECORDER
MONITOR SELECT
OUTPUT SELECT
INPUT SELECTOR
VREF AMP
LOG AMP
A.MUTE SW
HF TRAP
NA INPUT
SWNC
VCO
FM LPF
20K LPF
PNR
EVR
EQ AMP2
TN300
2SA1162Y
TN003
BC847/B
IIC_DA_EV
IIC_CLK_EV
D_GND
MPX_ERR
+8VE
REC_LEVEL
FE_CTRL
A_IF
ERASECTL
GND
A_LIN_REC
A_LIN_PB
GND
NC
NC
AUDIO_MUTE
REC_ON
U2 +5VS
U6 +9VS1
IIC_CLK_SW
IIC_DA_SW
AUDIO_FF
AUDIO_ENV
R_LEVEL_METER
L_LEVEL_METER
BN301 MAIN BOARD
BX002 MAIN BOARD
AUDIO AM
AUDIO FM

IN007	RN308	RN320	CN324
TA8863AF	270R	24K	68P
TA8863BF	750R	30K	75P

20 65 89 10 TMB U10/U14/U15/U18/U19/U20/U21/U26/U30/U31/U34/U35

AUDIO HIFI / SCART CONNECTION BOARD - PLATINE AUDIO HIFI / PRISES SCART - LEITERPLATTE AUDIO HIFI / SCART - PIASTRA AUDIO HIFI / SCART - PLATINA AUDIO

SCHEMATIC DIAGRAM (AUDIO HIFI) - SCHEMA DE PRINCIPE (AUDIO HIFI) - SCHALTBILD (AUDIO HIFI) - SCHEMA (AUDIO HIFI) - ESQUEMA (AUDIO HIFI) **VPH 6680 - VPH 6697SENSAR - VPH 6750 - VPH 6**

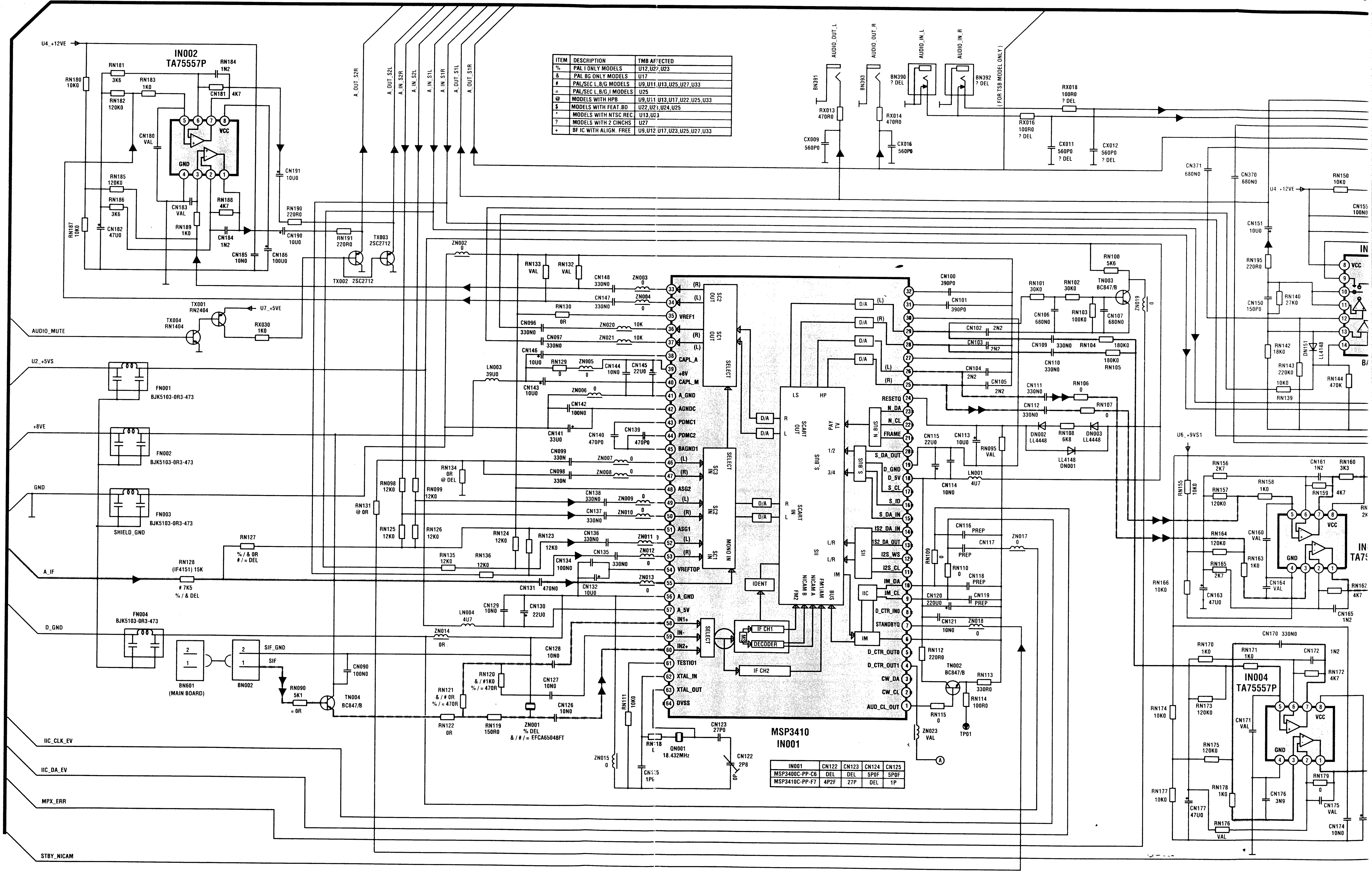

U4_+12VE
IN002
TA75557P
RN181 3K6
RN180 10K0
RN183 1K0
RN184 1N2
CN181 4K7
RN182 120K0
CN180 VAL
VCC
GND
RN185 120K0
RN186 3K6
RN187 10K0
CN182 47U0
CN183 VAL
RN188 4K7
RN189 1K0
CN184 1N2
CN185 10N0
CN186 100U0
CN191 10U0
RN190 220R0
CN190 10U0
RN191 220R0
TX003 2SC2712
TX002 2SC2712
ZN002 0
A_OUT_S2R
A_OUT_S2L
A_IN_S2R
A_IN_S2L
A_IN_S1L
A_IN_S1R
A_OUT_S1L
A_OUT_S1R
AUDIO_OUT_L
AUDIO_OUT_R
AUDIO_IN_L
AUDIO_IN_R
(FOR TSB MODEL ONLY)
BN391
BN393
BN390 ? DEL
BN392 ? DEL
RX013 470R0
RX014 470R0
CX009 560P0
CX016 560P0
RX018 100R0 ? DEL
RX016 100R0 ? DEL
CX011 560P0 ? DEL
CX012 560P0 ? DEL
CN371 680N0
CN370 680N0
RN150 10K0
U4_+12VE
CN155 100N0
CN151 10U0
RN195 220R0
CN150 150P0
RN140 27K0
RN142 18K0
DN151 LL4148
RN143 220K0
10K0
RN139
RN144 470K
AUDIO_MUTE
TX001 RN2404
TX004 RN1404
U7_+5VE
RX030 1K0
U2_+5VS
FN001 BJK5103-0R3-473
+8VE
FN002 BJK5103-0R3-473
GND
FN003 BJK5103-0R3-473
SHIELD_GND
A_IF
RN127 % / & 0R # / = DEL
RN128 (IF4151) 15K # 7K5 % / & DEL
D_GND
FN004 BJK5103-0R3-473
BN601 (MAIN BOARD)
BN002
SIF_GND
SIF
RN090 5K1 = 0R
TN004 BC847/B
CN090 100N0
IIC_CLK_EV
IIC_DA_EV
MPX_ERR
STBY_NICAM
RN133 VAL
RN132 VAL
CN148 330N0
ZN003 0
CN147 330N0
ZN004 0
RN130 0R
CN096 330N0
ZN020 10K
CN097 330N0
ZN021 10K
CN146 10U0
RN129 0
ZN005 0
CN144 10N0
CN145 22U0
LN003 39U0
CN143 10U0
ZN006 0
CN142 100N0
CN141 33U0
CN140 470P0
CN139 470P0
CN099 330N
ZN007 0
CN098 330N
ZN008 0
RN134 0R @ DEL
RN098 12K0
RN099 12K0
RN131 @ 0R
CN138 330N0
ZN009 0
CN137 330N0
ZN010 0
RN125 12K0
RN126 12K0
RN124 12K0
RN123 12K0
CN136 330N0
ZN011 0
CN135
ZN012 0
CN134 100N0
330N0
RN135 12K0
RN136 12K0
CN131 470N0
CN132 10U0
ZN013 0
CN129 10N0
CN130 22U0
LN004 4U7
ZN014 0R
CN128 10N0
RN120 & / #1K0 % / = 470R
CN127 10N0
RN121 & / # 0R % / = 470R
CN126 10N0
RN122 0R
RN119 150R0
ZN001 % DEL & / # / = EFCA65048FT
RN111 10K0
ZN015 0
RN118 0
CN125 1P0
QN001 18.432MHz
CN123 27P0
CN122 2P8
(R) (L)
SC2 OUT
SC1 OUT
SELECT
VREF1
CAPL_A
+8V
CAPL_M
A_GND
AGNDC
PDMC1
PDMC2
BAGND1
SC3 IN
ASG2
SC2 IN
ASG1
SC1 IN
MONO IN
VREFTOP
A_5V
IN1+
IN-
IN2+
TESTIO1
XTAL_IN
XTAL_OUT
DVSS
IDENT
IF CH1
DECODER
IF CH2
MSP3410
IN001
D/A
LS
HP
SCART OUT
PAY TV
SUB S
1/2
3/4
SCART IN
L/R
SII
IM
FM2
NICAM B
NICAM A
FM1/AM
BUS
IIC
I2S
RESETQ
N_DA
N_CL
FRAME
S_DA_OUT
D_GND
D_5V
S_CL
S_ID
S_DA_IN
I2S_DA_IN
I2S_DA_OUT
I2S_WS
I2S_CL
IM_DA
IM_CL
D_CTR_IN0
STANDBYQ
D_CTR_OUT0
D_CTR_OUT1
CW_DA
CW_CL
AUD_CL_OUT
CN100 390P0
CN101 390P0
CN102 2N2
CN103 2N2
CN104 2N2
CN105 2N2
CN115 22U0
CN113 10U0
RN095 VAL
CN114 10N0
LN001 4U7
CN116 PREP
CN117 PREP
ZN017 0
RN109 0
RN110 0
CN118 PREP
CN120 220U0
CN119 PREP
CN121 10N0
ZN018 0
RN112 220R0
TN002 BC847/B
RN113 330R0
RN114 100R0
RN115 0
ZN023 VAL
TP01
RN100 5K6
RN101 30K0
RN102 30K0
TN003 BC847/B
ZN019 0
CN106 680N0
RN103 100K0
CN107 680N0
CN109 330N0
RN104 180K0
CN110 330N0
RN105 180K0
CN111 330N0
RN106 0
CN112 330N0
RN107 0
DN002 LL4448
RN108 6K8
DN003 LL4448
LL4148 DN001
U6_+9VS1
RN155 10K0
RN156 2K7
RN157 120K0
RN158 1K0
CN161 1N2
RN160 3K3
RN159 4K7
RN164 120K0
CN160 VAL
RN163 1K0
RN165 2K7
RN166 10K0
CN163 47U0
CN164 VAL
RN162 4K7
CN165 1N2
CN170 330N0
RN170 1K0
RN171 1K0
CN172 1N2
RN172 4K7
IN004
TA75557P
RN174 10K0
RN173 120K0
CN171 VAL
RN175 120K0
RN177 10K0
RN178 1K0
CN176 3N9
RN179 0
CN175 VAL
CN177 47U0
RN176 VAL
CN174 10N0

ITEM	DESCRIPTION	TMB AFFECTED
%	PAL I ONLY MODELS	U12,U22,U23
&	PAL BG ONLY MODELS	U17
#	PAL/SEC L,B/G MODELS	U9,U11,U13,U25,U27,U33
=	PAL/SEC L,B/G,I MODELS	U25
@	MODELS WITH HPB	U9,U11,U13,U17,U22,U25,U33
$	MODELS WITH FEAT.BD	U22,U23,U24,U25
*	MODELS WITH NTSC REC.	U13,U23
?	MODELS WITH 2 CINCHS	U27
+	BF IC WITH ALIGN. FREE	U9,U12,U17,U23,U25,U27,U33

IN001	CN122	CN123	CN124	CN125
MSP3400C-PP-C6	DEL	DEL	5P0F	5P0F
MSP3410C-PP-F7	4P2F	27P	DEL	1P

AUDIO HIFI / SCART CONNECTION BOARD - PLATINE AUDIO HIFI / PRISES SCART - LEITERPLATTE AUDIO HIFI / SCART - PIASTRA AUDIO HIFI / SCART - PLATINA AUDIO

SCHEMATIC DIAGRAM (AUDIO HIFI) - SCHEMA DE PRINCIPE (AUDIO HIFI) - SCHALTBILD (AUDIO HIFI) - SCHEMA (AUDIO HIFI) - ESQUEMA (AUDIO HIFI) **VPH 6680 - VPH 6697SENSAR - VPH 6750 - VPH 6**



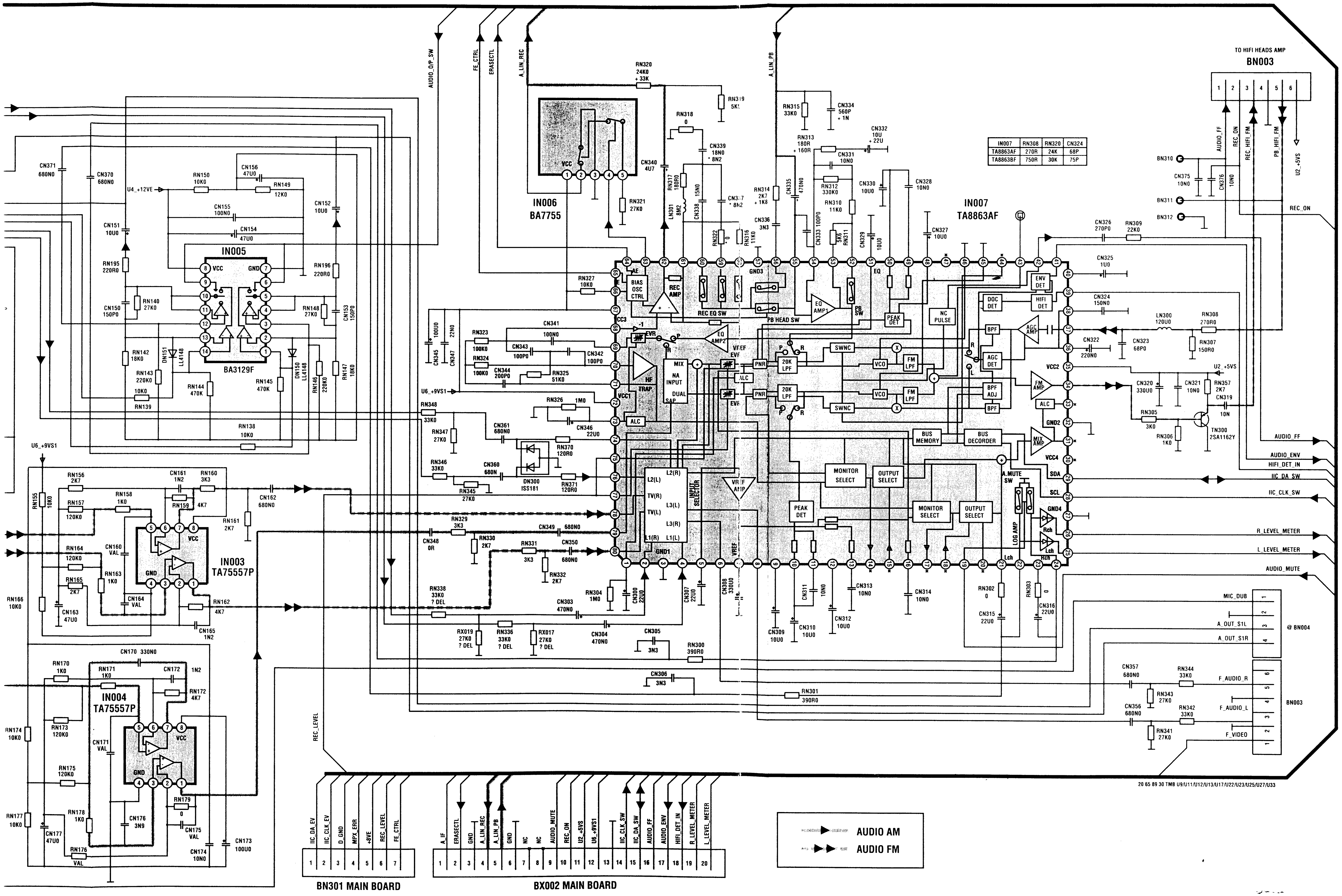
U4_+12VE
IN002
TA75557P
RN181 3K6
RN183 1K0
RN184 1N2
CN181 4K7
RN180 10K0
RN182 120K0
CN180 VAL
VCC
GND
RN185 120K0
RN186 3K6
CN183 VAL
RN188 4K7
RN189 1K0
CN182 47U0
RN187 10K0
CN184 1N2
CN185 10N0
CN186 100U0
CN191 10U0
RN190 220R0
CN190 10U0
RN191 220R0
TX003 2SC2712
TX002 2SC2712
A_OUT_S2R
A_OUT_S2L
A_IN_S2R
A_IN_S2L
A_IN_S1L
A_IN_S1R
A_OUT_S1L
A_OUT_S1R
AUDIO_OUT_L
AUDIO_OUT_R
AUDIO_IN_L
AUDIO_IN_R
(FOR TSB MODEL ONLY)
BN391
BN393
BN390 ? DEL
BN392 ? DEL
RX013 470R0
RX014 470R0
CX009 560P0
CX016 560P0
RX018 100R0 ? DEL
RX016 100R0 ? DEL
CX011 560P0 ? DEL
CX012 560P0 ? DEL
CN371 680N0
CN370 680N0
RN150 10K0
U4 +12VE
CN155 100N0
CN151 10U0
RN195 220R0
CN150 150P0
RN140 27K0
RN142 18K0
DN151 LL4148
RN143 220K0
10K0 RN139
RN144 470K
AUDIO_MUTE
TX001 RN2404
TX004 RN1404
U7_+5VE
RX030 1K0
U2_+5VS
FN001 BJK5103-0R3-473
+8VE
FN002 BJK5103-0R3-473
GND
FN003 BJK5103-0R3-473
SHIELD_GND
A_IF
RN127 % / & 0R # / = DEL
RN128 (IF4151) 15K # 7K5 % / & DEL
D_GND
FN004 BJK5103-0R3-473
BN601 (MAIN BOARD)
BN002
SIF_GND
SIF
RN090 5K1 = 0R
TN004 BC847/B
CN090 100N0
IIC_CLK_EV
IIC_DA_EV
MPX_ERR
STBY_NICAM
ZN002 0
RN133 VAL
RN132 VAL
CN148 330N0
ZN003 0
CN147 330N0
ZN004 0
RN130 0R
CN096 330N0
ZN020 10K
CN097 330N0
ZN021 10K
CN146 10U0
RN129 0
ZN005 0
CN144 10N0
CN145 22U0
LN003 39U0
CN143 10U0
ZN006 0
CN142 100N0
CN141 33U0
CN140 470P0
CN139 470P0
CN099 330N
ZN007 0
CN098 330N
ZN008 0
RN134 0R @ DEL
RN098 12K0
RN099 12K0
CN138 330N0
ZN009 0
CN137 330N0
ZN010 0
RN131 @ 0R
RN125 12K0
RN126 12K0
RN124 12K0
RN123 12K0
CN136 330N0
ZN011 0
CN135
ZN012 0
RN135 12K0
RN136 12K0
CN134 100N0
330N0
ZN013 0
CN132 10U0
CN131 470N0
CN129 10N0
CN130 22U0
LN004 4U7
ZN014 0R
CN128 10N0
RN120 & / #1K0 % / = 470R
CN127 10N0
RN121 & / # 0R % / = 470R
RN122 0R
RN119 150R0
ZN001 % DEL & / # / = EFCA65048FT
CN126 10N0
RN111 10K0
ZN015 0
RN118 0
QN001 18.432MHz
CN123 27P0
CN122 2P8
CN125 1P0
MSP3410
IN001
(R) (L) SC2 OUT
VREF1
(R) (L) SC1 OUT
CAPL_A
+8V
CAPL_M
A_GND
AGNDC
PDMC1
PDMC2
BAGND1
SELECT
SC3 IN
ASG2
SC2 IN
ASG1
SC1 IN
MONO IN
VREFTOP
A_GND
A_5V
IN1+
IN-
IN2+
TESTIO1
XTAL_IN
XTAL_OUT
DVSS
IF CH1
DECODER
IF CH2
IDENT
D/A
LS
HP
SCART OUT
PAY TV
SUB S
1/2
3/4
SCART IN
L/R
SII
IM
FM2
NICAM B
NICAM A
FM1/AM
BUS
IIC
RESETQ
N_DA
N_CL
FRAME
S_DA_OUT
D_GND
D_5V
S_CL
S_ID
S_DA_IN
IS2_DA_IN
IS2_DA_OUT
I2S_WS
I2S_CL
IM_DA
IM_CL
D_CTR_INO
STANDBYQ
D_CTR_OUTO
D_CTR_OUT1
CW_DA
CW_CL
AUD_CL_OUT
CN100 390P0
CN101 390P0
CN102 2N2
CN103 2N2
CN104 2N2
CN105 2N2
CN115 22U0
CN113 10U0
RN095 VAL
CN114 10N0
LN001 4U7
CN116 PREP
CN117 PREP
ZN017 0
RN109 0
RN110 0
CN118 PREP
CN120 220U0
CN119 PREP
CN121 10N0
ZN018 0
RN112 220R0
TN002 BC847/B
RN113 330R0
RN114 100R0
RN115 0
ZN023 VAL
TP01
A
RN100 5K6
RN101 30K0
RN102 30K0
TN003 BC847/B
ZN019 0
CN106 680N0
RN103 100K0
CN107 680N0
CN109 330N0
RN104 180K0
CN110 330N0
RN105 180K0
CN111 330N0
RN106 0
CN112 330N0
RN107 0
DN002 LL4448
RN108 6K8
DN003 LL4448
LL4148 DN001
U6_+9VS1
RN155 10K0
RN156 2K7
RN157 120K0
RN158 1K0
CN161 1N2
RN160 3K3
RN159 4K7
RN164 120K0
CN160 VAL
RN165 2K7
RN163 1K0
RN166 10K0
CN163 47U0
CN164 VAL
RN162 4K7
CN165 1N2
CN170 330N0
RN170 1K0
RN171 1K0
CN172 1N2
RN172 4K7
IN004
TA75557P
RN173 120K0
RN174 10K0
CN171 VAL
RN175 120K0
RN177 10K0
RN178 1K0
CN176 3N9
RN179 0
CN175 VAL
CN177 47U0
RN176 VAL
CN174 10N0

ITEM	DESCRIPTION	TMB AFFECTED
%	PAL I ONLY MODELS	U12,U22,U23
&	PAL BG ONLY MODELS	U17
#	PAL/SEC L,B/G MODELS	U9,U11,U13,U25,U27,U33
=	PAL/SEC L,B/G,I MODELS	U25
@	MODELS WITH HPB	U9,U11,U13,U17,U22,U25,U33
$	MODELS WITH FEAT.BD	U22,U23,U24,U25
*	MODELS WITH NTSC REC.	U13,U23
?	MODELS WITH 2 CINCHS	U27
+	BF IC WITH ALIGN. FREE	U9,U12,U17,U23,U25,U27,U33

IN001	CN122	CN123	CN124	CN125
MSP3400C-PP-C6	DEL	DEL	5P0F	5P0F
MSP3410C-PP-F7	4P2F	27P	DEL	1P

SCART - PLATINA AUDIO HIFI /

697SENSAR - VPH 6750 - VPH 6751 - VPH 6780 - VPH 6790 - M 9571 HIFI - M 9680 HIFI

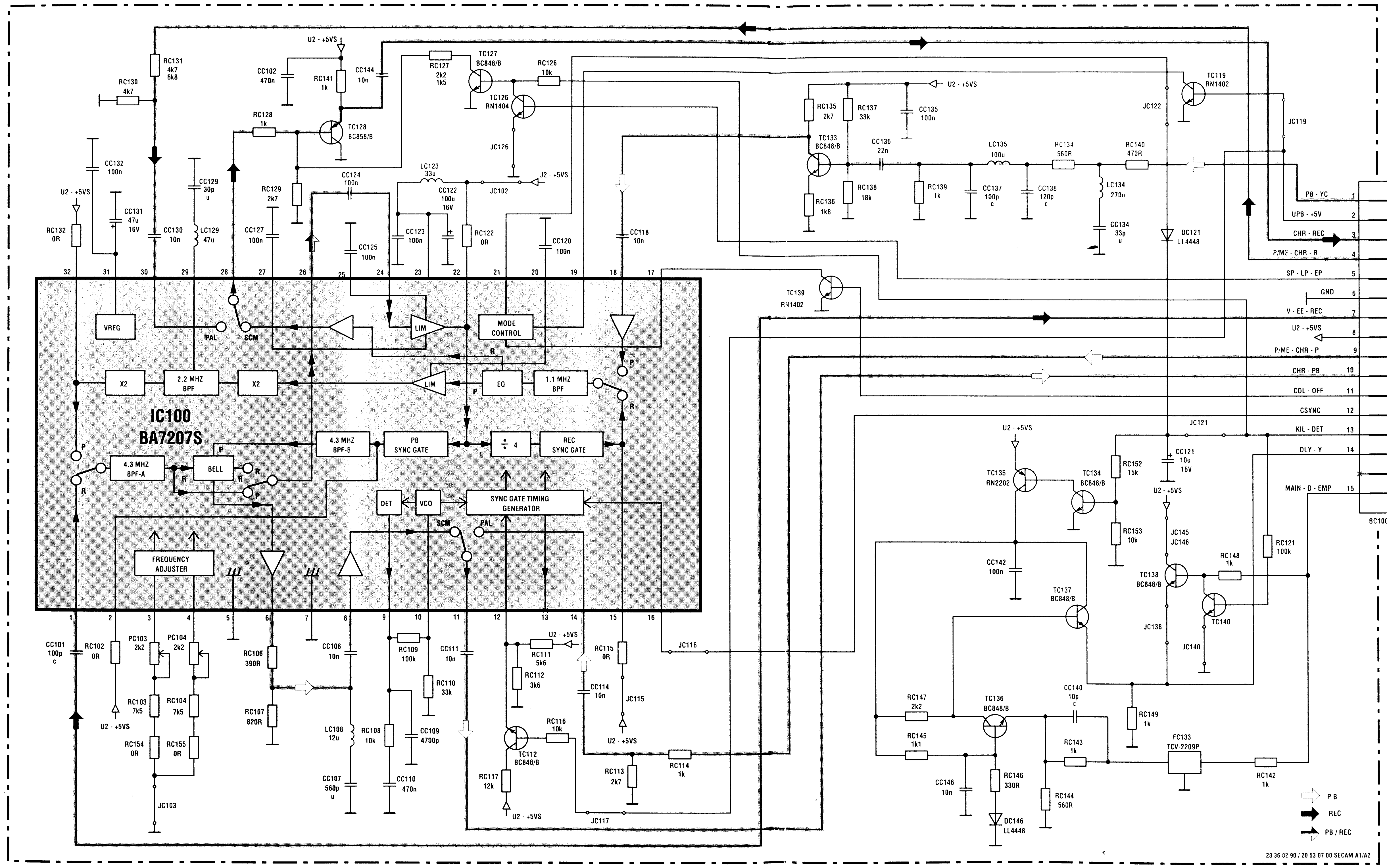


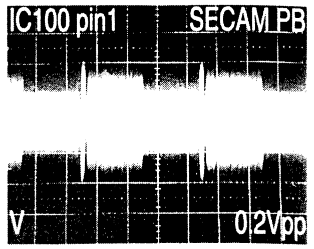
TO HIFI HEADS AMP
BN003
AUDIO_FF
REC_ON
REC_HIFI_FM
PB_HIFI_FM
U2_+5VS
IN006
BA7755
IN005
BA3129F
IN007
TA8863AF
IN003
TA75557P
IN004
TA75557P
AUDIO_O/P_SW
FE_CTRL
ERASECTL
A_LIN_REC
A_LIN_PB
U4_+12VE
U6_+9VS1
REC_LEVEL
AUDIO_ENV
HIFI_DET_IN
IIC_DA_SW
IIC_CLK_SW
R_LEVEL_METER
L_LEVEL_METER
AUDIO_MUTE
MIC_DUB
A_OUT_S1L
A_OUT_S1R
@ BN004
F_AUDIO_R
F_AUDIO_L
F_VIDEO
BN003
TN300
2SA1162Y
DN300
ISS181
REC EQ SW
PB HEAD SW
BIAS OSC CTRL
REC AMP
EQ AMP1
EQ AMP2
PEAK DET
NC PULSE
DOC DET
ENV DET
HIFI DET
AGC AMP
AGC DET
BPF
BPF ADJ
FM AMP
MIX AMP
SWNC
VCO
FM LPF
20K LPF
PNR
ALC
HF TRAP
MIX
NA INPUT
DUAL SAP
BUS MEMORY
BUS DECORDER
MONITOR SELECT
OUTPUT SELECT
INPUT SELECTOR
VREF AMP
A.MUTE SW
LOG AMP
SDA
SCL
VCC1
VCC2
VCC4
GND1
GND2
GND3
GND4
IIC_DA_EV
IIC_CLK_EV
D_GND
MPX_ERR
+8VE
REC_LEVEL
FE_CTRL
A_IF
ERASECTL
GND
A_LIN_REC
A_LIN_PB
GND
NC
NC
AUDIO_MUTE
REC_ON
U2_+5VS
U6_+9VS1
IIC_CLK_SW
IIC_DA_SW
AUDIO_FF
AUDIO_ENV
HIFI_DET_IN
R_LEVEL_METER
L_LEVEL_METER
BN301 MAIN BOARD
BX002 MAIN BOARD
AUDIO AM
AUDIO FM
20 65 89 30 TMB U9/U11/U12/U13/U17/U22/U23/U25/U27/U33

IN007	RN308	RN320	CN324
TA8863AF	270R	24K	68P
TA8863BF	750R	30K	75P

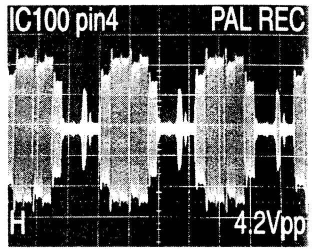
SECAM SUB BOARD - PLATINE SECAM - SUB MODUL SECAM - PIASTRA SECAM - PLATINA SECAM

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


IC100
BA7207S
VREG
X2
2.2 MHZ BPF
LIM
EQ
1.1 MHZ BPF
MODE CONTROL
4.3 MHZ BPF-B
PB SYNC GATE
÷ 4
REC SYNC GATE
4.3 MHZ BPF-A
BELL
DET
VCO
SYNC GATE TIMING GENERATOR
FREQUENCY ADJUSTER
PAL
SCM
P
R
U2 - +5VS
RC131 4k7 6k8
RC130 4k7
CC132 100n
CC131 47u 16V
RC132 0R
CC130 10n
CC129 30p u
LC129 47u
RC128 1k
TC128 BC858/B
RC141 1k
CC102 470n
CC144 10n
TC127 BC848/B
RC127 2k2 1k5
RC126 10k
TC126 RN1404
JC126
RC129 2k7
CC127 100n
CC124 100n
CC125 100n
LC123 33u
CC122 100u 16V
CC123 100n
RC122 0R
JC102
CC120 100n
CC118 10n
RC135 2k7
RC137 33k
CC135 100n
TC133 BC848/B
RC136 1k8
RC138 18k
CC136 22n
RC139 1k
LC135 100u
CC137 100p c
CC138 120p c
RC134 560R
LC134 270u
CC134 33p u
RC140 470R
DC121 LL4448
JC122
TC119 RN1402
JC119
TC139 RN1402
CC101 100p c
RC102 0R
PC103 2k2
PC104 2k2
RC103 7k5
RC104 7k5
RC154 0R
RC155 0R
JC103
RC106 390R
RC107 820R
CC108 10n
LC108 12u
CC107 560p u
RC108 10k
RC109 100k
CC109 4700p
CC110 470n
CC111 10n
RC110 33k
RC111 5k6
RC112 3k6
TC112 BC848/B
RC116 10k
RC117 12k
CC114 10n
RC115 0R
JC115
JC116
RC113 2k7
RC114 1k
JC117
TC135 RN2202
CC142 100n
TC134 BC848/B
RC152 15k
RC153 10k
CC121 10u 16V
JC121
JC145 JC146
TC138 BC848/B
RC148 1k
TC140
RC121 100k
JC138
JC140
TC137 BC848/B
RC147 2k2
RC145 1k1
TC136 BC848/B
CC146 10n
RC146 330R
DC146 LL4448
CC140 10p c
RC149 1k
RC143 1k
RC144 560R
FC133 TCV-2209P
RC142 1k
PB - YC 1
UPB - +5V 2
CHR - REC 3
P/ME - CHR - R 4
SP - LP - EP 5
GND 6
V - EE - REC 7
U2 - +5VS 8
P/ME - CHR - P 9
CHR - PB 10
COL - OFF 11
CSYNC 12
KIL - DET 13
DLY - Y 14
MAIN - D - EMP 15
BC100
to MAIN BOARD MAIN VIDEO PAL/MES/SEC/NTSC
① ② ③ ④ ⑤ ⑥ ⑦
PB
REC
PB / REC
20 36 02 90 / 20 53 07 00 SECAM A1/A2



①



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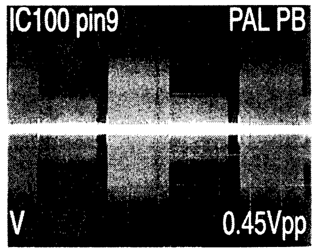

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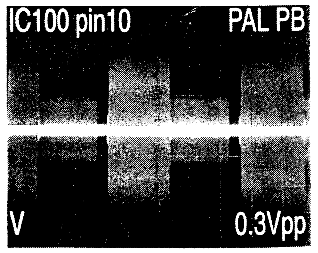

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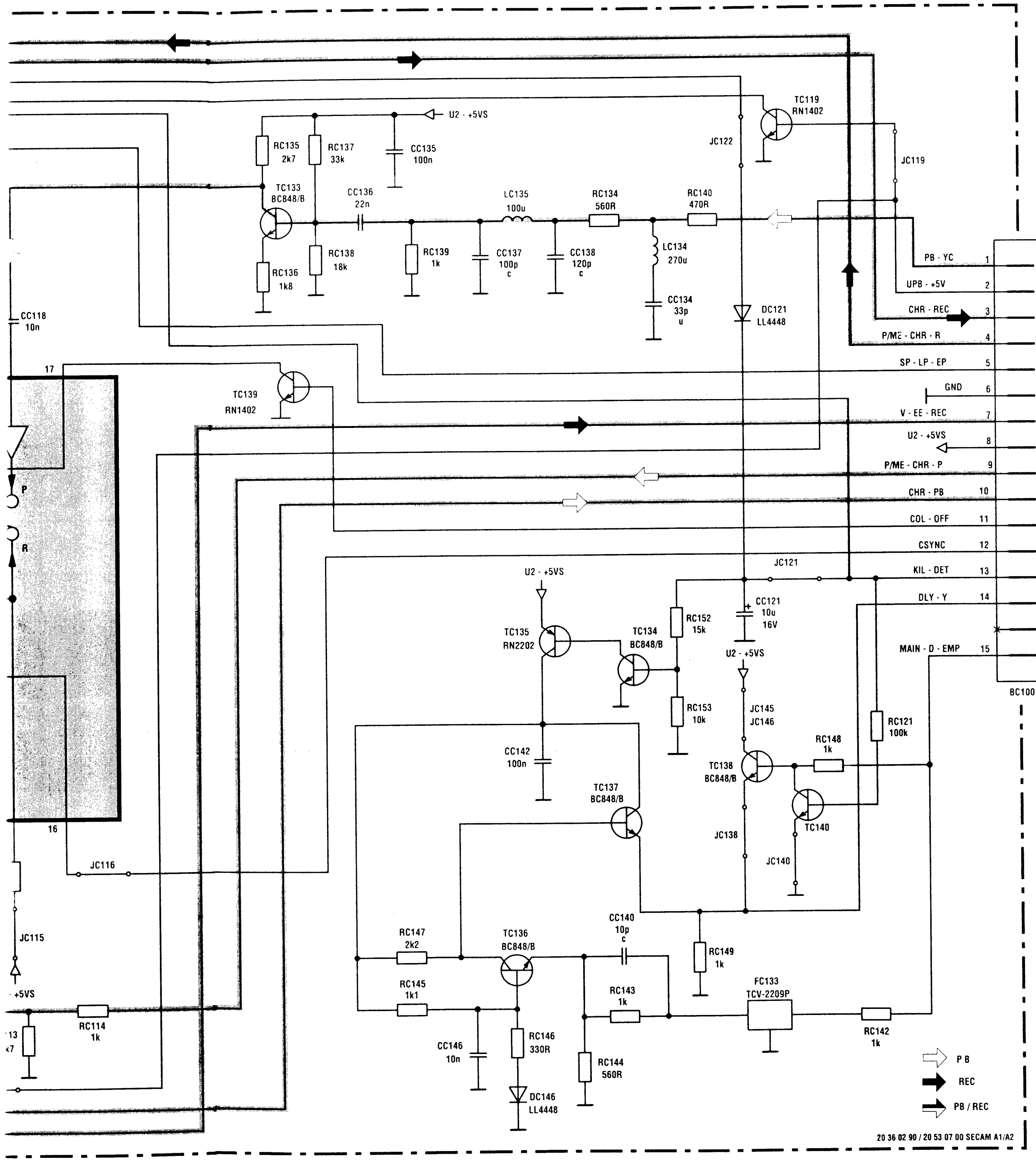
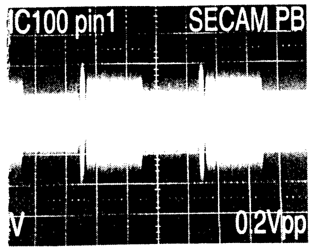

U2 - +5VS
RC135 2k7
RC137 33k
CC135 100n
TC119 RN1402
JC122
JC119
TC133 BC848/B
CC136 22n
LC135 100u
RC134 560R
RC140 470R
RC136 1k8
RC138 18k
RC139 1k
CC137 100p
CC138 120p
LC134 270u
CC134 33p
DC121 LL4448
CC118 10n
17
TC139 RN1402
16
JC116
JC115
+5VS
RC114 1k
PB - YC 1
UPB - +5V 2
CHR - REC 3
P/ME - CHR - R 4
SP - LP - EP 5
GND 6
V - EE - REC 7
U2 - +5VS 8
P/ME - CHR - P 9
CHR - PB 10
COL - OFF 11
CSYNC 12
KIL - DET 13
DLY - Y 14
MAIN - D - EMP 15
BC100
to MAIN BOARD
MAIN VIDEO
PAL/MES/SEC/NTSC
JC121
U2 - +5VS
TC135 RN2202
TC134 BC848/B
RC152 15k
CC121 10u 16V
RC153 10k
U2 - +5VS
JC145
JC146
RC148 1k
RC121 100k
CC142 100n
TC137 BC848/B
TC138 BC848/B
TC140
JC138
JC140
RC147 2k2
TC136 BC848/B
CC140 10p
RC149 1k
RC145 1k1
RC143 1k
FC133 TCV-2209P
RC142 1k
CC146 10n
RC146 330R
RC144 560R
DC146 LL4448
PB
REC
PB / REC
20 36 02 90 / 20 53 07 00 SECAM A1/A2



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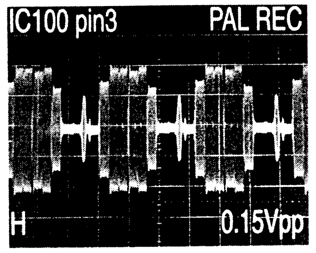

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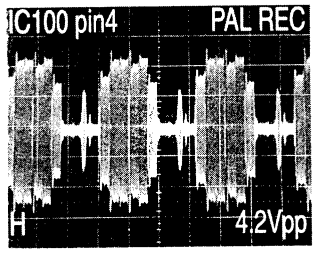
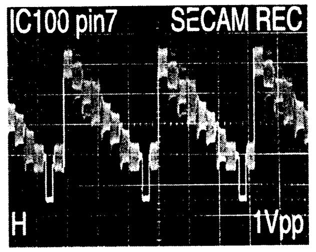
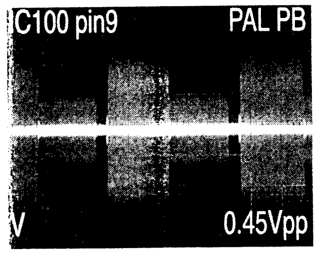


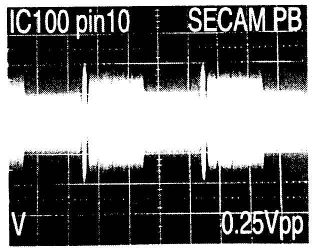
③



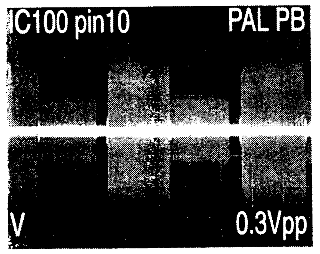
④



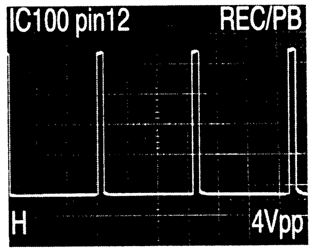
⑤



⑥

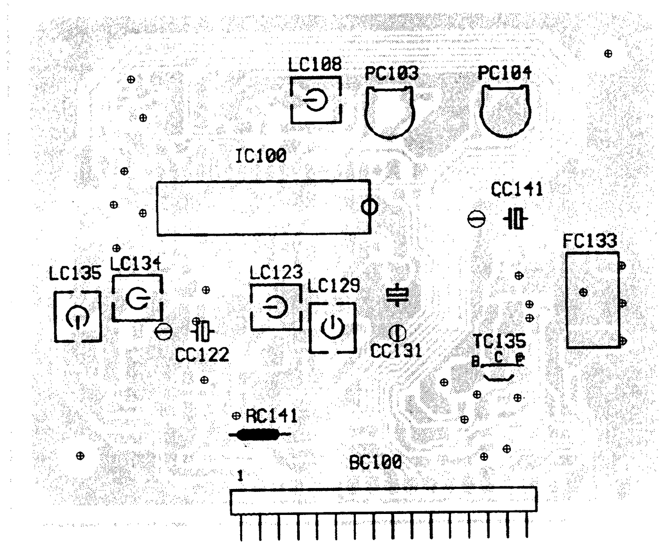


⑦

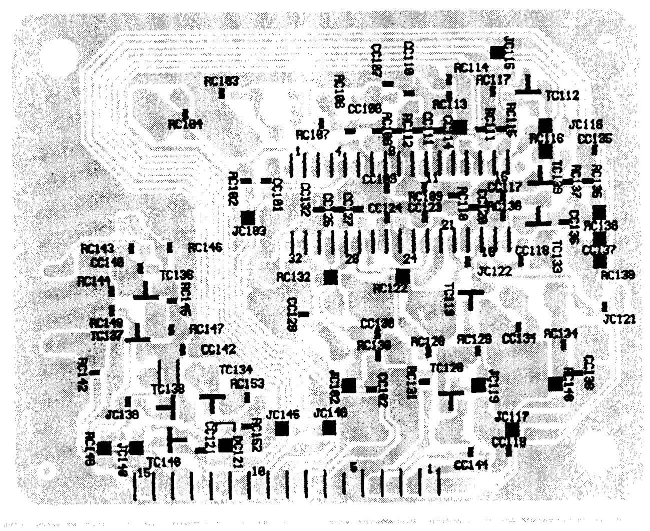


⑧

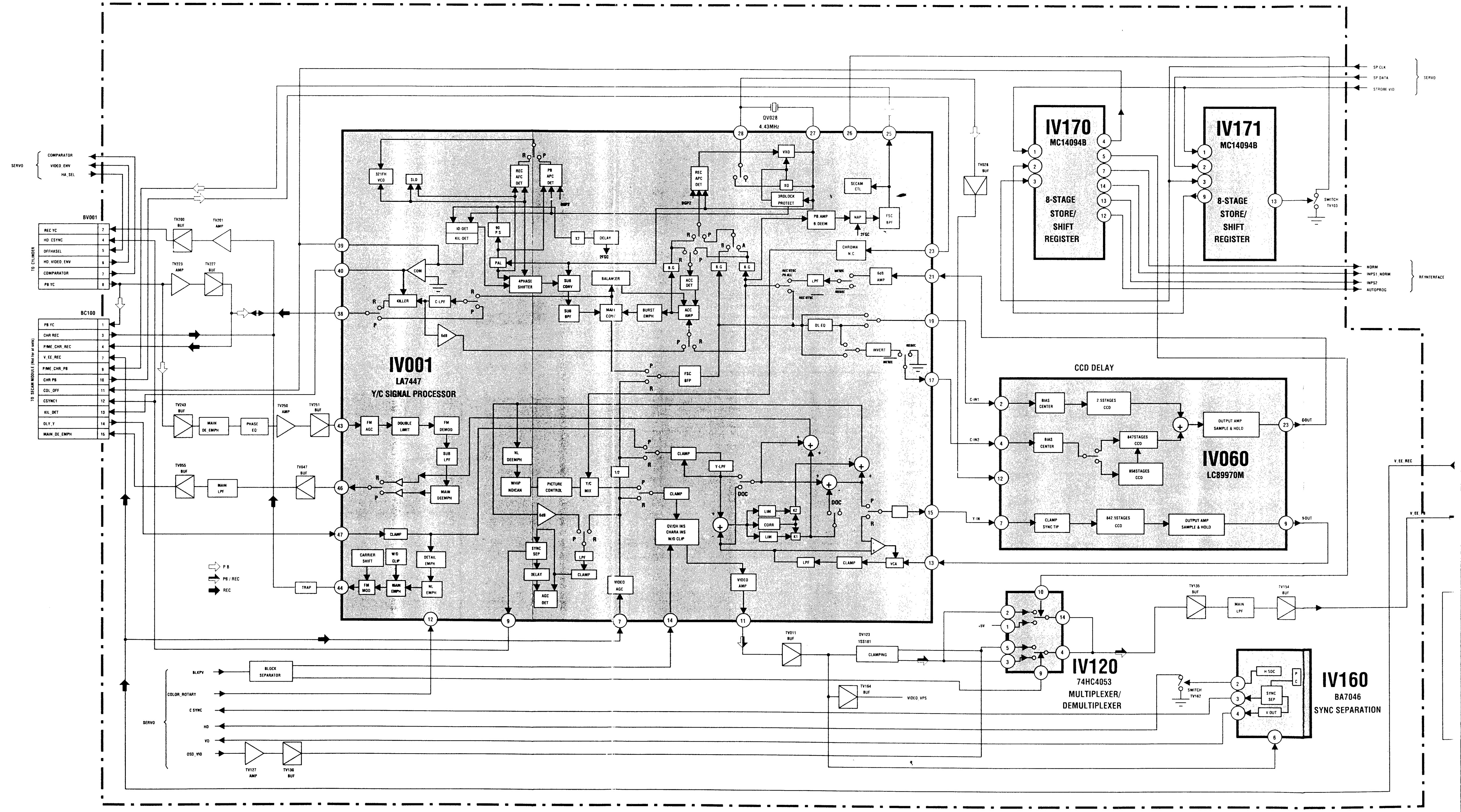
Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes


LC108
PC103
PC104
IC100
CC141
FC133
LC135
LC134
LC123
LC129
CC122
CC131
TC135
RC141
BC100
1

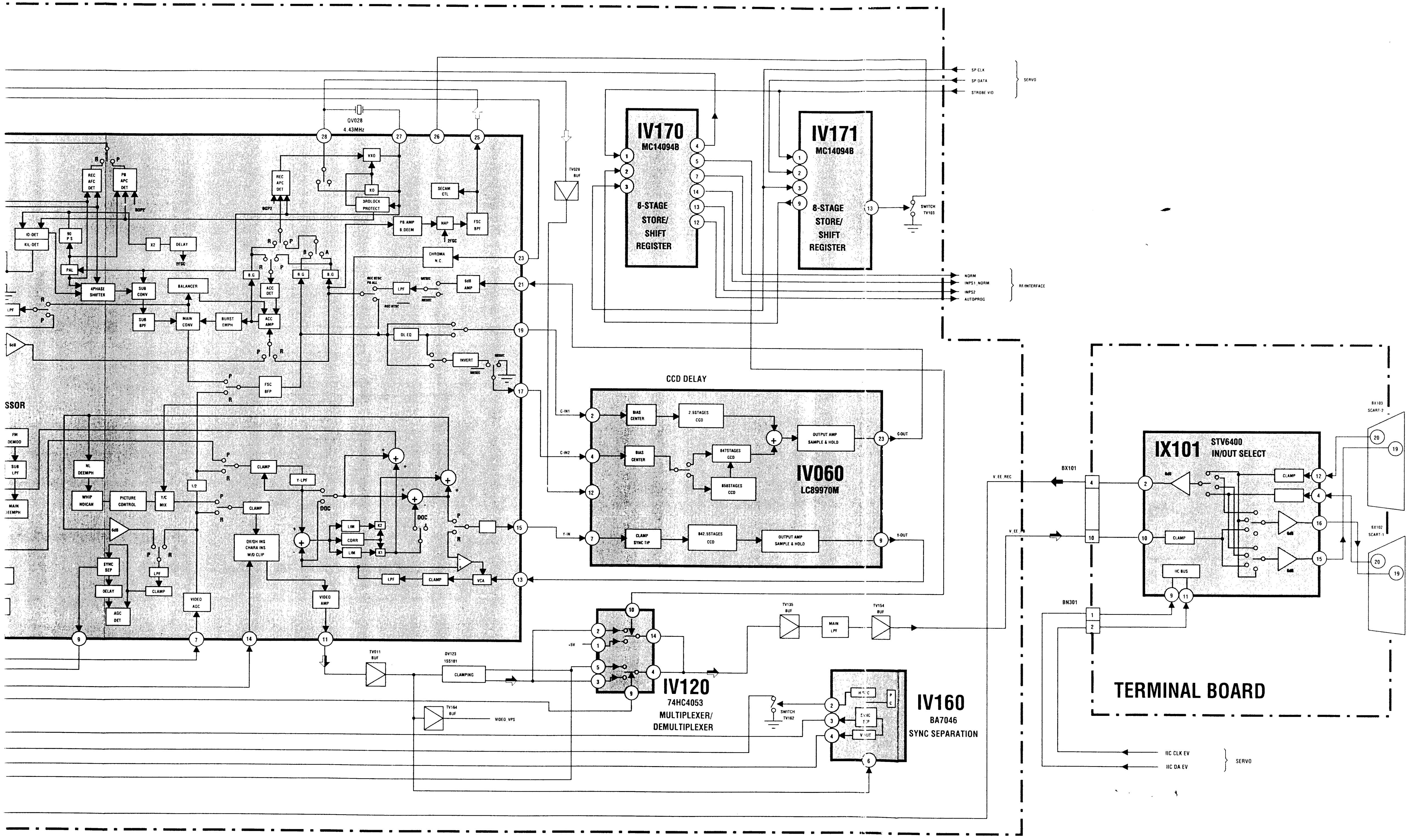
Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


RC103
RC104
RC107
TC112
JC118
JC122
JC121
RC132
RC143
CC146
RC144
RC145
TC136
RC147
CC142
TC134
RC153
TC137
JC138
TC140
JC146
JC140
JC117
CC131
RC134
RC139
CC144
1
15
16
32

BLOCK DIAGRAM VIDEO SIGNAL PROCESSING - SCHEMA SYNOPTIQUE TRAITEMENT VIDEO - BLOCKSCHALTBILD VIDEO SIGNALVERARBEITUNG - SCHEMA A BLOCCHI ELABORAZIONE VIDEO - ESQUEMA DE BLOQUES TRATAMIENTO VIDEO


SERVO
COMPARATOR
VIDEO_ENV
HA_SEL
BV001
TO CYLINDER
REC YC 2
HD_CSYNC 4
OFFHASEL 5
HD_VIDEO_ENV 6
COMPARATOR 7
PB YC 8
BC100
TO SECAM MODULE (Not for al sets)
PB YC 1
CHR REC 3
P/ME_CHR_REC 4
V_EE_REC 7
P/ME_CHR_PB 9
CHR PB 10
COL_OFF 11
CSYNC1 12
KIL_DET 13
DLY_Y 14
MAIN_DE_EMPH 15
TV200 BUF
TV201 AMP
TV223 AMP
TV227 BUF
TV243 BUF
MAIN DE_EMPH
PHASE EQ
TV250 AMP
TV251 BUF
TV055 BUF
MAIN LPF
TV047 BUF
TRAP
P B
PB / REC
REC
IV001
LA7447
Y/C SIGNAL PROCESSOR
QV028
4.43MHz
28
27
26
25
321FH VCO
SLD
REC AFC DET
PB APC DET
BGP2
REC APC DET
VXO
XO
3RDLOCK PROTECT
SECAM CTL
ID-DET
KIL-DET
90 P.S
X2
DELAY
2FSC
PB AMP B.DEEM
NAP
FSC BPF
PAL
4PHASE SHIFTER
SUB CONV
BALANCER
B.G
ACC DET
CHROMA N.C
COM
KILLER
C-LPF
SUB BPF
MAIN CONV
BURST EMPH
ACC AMP
LPF
6dB AMP
REC NTSC
PB ALL
MESEC
DL EQ
INVERT
6dB
FSC BFP
R
P
B
A
39
40
38
43
46
47
44
23
21
19
17
15
13
12
9
7
14
11
FM AGC
DOUBLE LIMIT
FM DEMOD
SUB LPF
MAIN DEEMPH
CLAMP
DETAIL EMPH
CARRIER SHIFT
W/D CLIP
FM MOD
MAIN EMPH
NL EMPH
NL DEEMPH
WHIP NOICAN
PICTURE CONTROL
Y/C MIX
1/2
SYNC SEP
DELAY
AGC DET
VIDEO AGC
QV/QH INS
CHARA INS
W/D CLIP
VIDEO AMP
Y-LPF
DOC
LIM
CORR
K1
K2
VCA
TV028 BUF
IV170
MC14094B
8-STAGE STORE/ SHIFT REGISTER
IV171
MC14094B
8-STAGE STORE/ SHIFT REGISTER
SWITCH TV103
SP CLK
SP DATA
STROBE VID
SERVO
NORM
INPS1_NORM
INPS2
AUTOPROG
RF/INTERFACE
CCD DELAY
C-IN1
C-IN2
Y-IN
BIAS CENTER
2.5STAGES CCD
847STAGES CCD
858STAGES CCD
842.5STAGES CCD
CLAMP SYNC TIP
OUTPUT AMP SAMPLE & HOLD
C-OUT
Y-OUT
IV060
LC89970M
V_EE_REC
V_EE_PB
TV135 BUF
MAIN LPF
TV154 BUF
TV011 BUF
DV123
1SS181
CLAMPING
+5V
IV120
74HC4053
MULTIPLEXER/ DEMULTIPLEXER
TV164 BUF
VIDEO_VPS
SWITCH TV162
H SDC
P C
SYNC SEP
V OUT
IV160
BA7046
SYNC SEPARATION
BLKPV
BLOCK SEPARATOR
COLOR_ROTARY
C SYNC
HD
VD
OSD_VID
TV127 AMP
TV130 BUF

HEMA SYNOPTIQUE TRAITEMENT VIDEO - BLOCKSCHALTBILD VIDEO SIGNALVERARBEITUNG -
UEMA DE BLOQUES TRATAMIENTO VIDEO


IV170
MC14094B
8-STAGE STORE/ SHIFT REGISTER
IV171
MC14094B
8-STAGE STORE/ SHIFT REGISTER
QV028
4.43MHz
VXO
XO
SECAM CTL
FSC BPF
PB AMP
CHROMA N.C
LPF
6dB AMP
DL EQ
INVERT
FSC BPF
REC AFC DET
PB APC DET
REC APC DET
ID-DET
KIL-DET
DELAY
4PHASE SHIFTER
SUB CONV
BALANCER
MAIN CONV
BURST EMPH
ACC DET
ACC AMP
SUB BPF
PAL
SSOR
FM DEMOD
SUB LPF
MAIN DEEMPH
NL DEEMPH
WHIP NOICAN
PICTURE CONTROL
Y/C MIX
CLAMP
Y-LPF
DOC
LIM
CORR
QV/QH INS CHARA INS W/O CLIP
VCA
SYNC SEP
DELAY
AGC DET
VIDEO AGC
VIDEO AMP
SP CLK
SP DATA
STROBE VID
SERVO
SWITCH TV103
NORM
INPS1, NORM
INPS2
AUTOPROG
RF/INTERFACE
CCD DELAY
C-IN1
C-IN2
Y-IN
BIAS CENTER
2.5STAGES CCD
847STAGES CCD
858STAGES CCD
OUTPUT AMP SAMPLE & HOLD
CLAMP SYNC TIP
842.5STAGES CCD
C-OUT
Y-OUT
IV060
LC89970M
IV120
74HC4053
MULTIPLEXER/ DEMULTIPLEXER
CLAMPING
TV011 BUF
DV123 1SS181
TV164 BUF
VIDEO VPS
TV135 BUF
MAIN LPF
TV154 BUF
SWITCH TV162
IV160
BA7046
SYNC SEPARATION
V EE REC
V EE
BX101
BN301
IIC CLK EV
IIC DA EV
SERVO
IX101
STV6400
IN/OUT SELECT
CLAMP
6dB
IIC BUS
BX103 SCART 2
BX102 SCART 1
TERMINAL BOARD

MEASUREMENTS VIDEO SIGNAL PROCESSING - MESURES TRAITEMENT VIDEO - MESSUNGEN VIDEO SIGNALVERARBEITUNG
MISURI ELABORAZIONE VIDEO - MEDIDAS TRATAMIENTO VIDEO

VIDEO		MODE		
LOC	PIN	EE	PLAY	REC.
DV123	1	3.1	3.1	3.1
	2	2.6	2.6	2.6
	3	2.6	2.6	2.6
IV001	1	2.3	4.5	2.3
	2	3.1	3.1	3.1
	3	2.5	2.5	2.5
	4	1.5	2	1.5
	5	2.4	2.4	2.4
	6	2.8	2.8	4.2
	7	3	3	3
	8	5	5	5
	9	0.5	0.5	0.5
	10	3.1	3.1	3.1
	11	2	2.1	2
	12	2.4	2.4	2.4
	13	2.2	2.2	2.2
	14	0.2	0.2	0.2
	15	1.2	1.2	1.2
	16	2.3	2.2	2.3
	17	2.5	2.5	2.5
	18	0	0	0
	19	2.6	2.6	2.6
	20	0	0	0
	21	2.5	2.5	2.5
	22	0	0	0
	23	1.9	1.9	1.9
	24	0	0	0
	25	0	2.5	0
	26	0.2	0.2	0.2
	27	4	4	4
	28	2.8	2.8	2.8
	29	2.1	2.1	2.1
	30	0	0	0
	31	0	0	0
	32	0	0	0
	33	5	5	5
	34	0.6	0.6	0.6
	35	0	0.3	0
	36	2.9	2.9	2.9
	37	2.9	2.9	2.9
	38	2.3	3.2	2.3
	39	3	3	3
	40	3.7	3.7	3.7
	41	1.5	2	1.6
	42	0	0	0
	43	2.3	3.2	2.3
	44	3	3.6	3
	45	4.2	4.2	4.2
	46	2.3	3.2	2.3
	47	3	3.2	3
	48	2.3	4.5	2.3

VIDEO		MODE		
LOC	PIN	EE	PLAY	REC.
IV060	1	0	0	0
	2	2.3	2.3	2.3
	3	5.1	5.1	5.1
	4	2.3	2.3	2.3
	5	0	0	0
	6	0	0	0
	7	2.3	2.3	2.3
	8	0	0	0
	9	1.2	1.2	1.2
	10	0	0	0
	11	2.3	2.3	2.3
	12	1.2	1.2	1.2
	13	0	0	0
	14	2	2	2
	15	2	2	2
	16	5	5	5
	17	0	0	0
	18	5	5	5
	19	8.5	8.5	8.5
	20	4.3	4.3	4.3
	21	0	0	0
	22	0	0	0
	23	1.3	1.3	1.3
	24	0	0	0
IV120	1	5.1	5.1	5.1
	2	3.1	3.1	3.1
	3	3.1	2.9	3.1
	4	3.1	2.9	3.1
	5	2.7	2.7	2.7
	6	0	0	0
	7	0	0	0
	8	0	0	0
	9	5.1	5.1	5.1
	10	0	0	0
	11	0	0	0
	12	3.1	2.9	3.1
	13	0.1	0.1	0.1
	14	3.1	2.9	3.1
	15	3.1	2.9	3.1
	16	5.1	5.1	5.1
IV160	1	2.1	2.1	2.1
	2	4.7	4.7	4.7
	3	0.8	0.8	0.8
	4	5	5	5
	5	0	0	0
	6	2.4	2.2	2.4
	7	5.1	5.1	5.1
	8	2.2	2.2	2.2

VIDEO		MODE		
LOC	PIN	EE	PLAY	REC.
IV170	1	4.8	4.8	4.8
	2	0	0	0
	3	4.8	4.8	4.8
	4	0	0	0
	5	0	0	0
	6	0	0	0
	7	0	0	0
	8	0	0	0
	9	0	0	0
	10	0	0	0
	11	0	0	0
	12	0	0	0
	13	0	0	0
	14	4.9	4.9	4.9
	15	5.1	5.1	5.1
	16	5.1	5.1	5.1
IV171	1	4.8	4.8	4.8
	2	0	0	0
	3	4.8	4.8	4.8
	4	0	0	0
	5	0	0	0
	6	0	5	0
	7	0	0	0
IV171	8	0	0	0
	9	0	0	0
	10	0	0	0
	11	0	0	0
	12	0	0	0
	13	4.9	4.9	4.9
	14	0	0	0
	15	5.1	5.1	5.1
	16	5.1	5.1	5.1
TV002	E	0	0	0
	B	0	5	0
	C	0	0	0
TV003	E	1.6	2.5	1.6
	B	0	3.2	0
	C	2.5	2.5	2.5
TV006	E	2.7	2.7	4.2
	B	0	0	4.8
	C	5.1	5.1	5.1
TV011	E	2.7	2.7	2.7
	B	2	2	2
	C	0	0	0

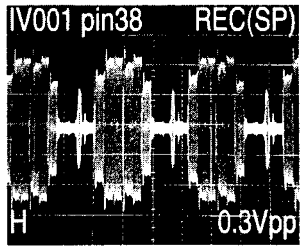
VIDEO		MODE		
LOC	PIN	EE	PLAY	REC.
TV028	E	2.2	2	2.2
	B	2.8	2.7	2.8
	C	5	5	5
TV047	E	3	3.8	3
	B	2.3	3.2	2.3
	C	0	0	0
TV055	E	2.3	3.2	2.3
	B	3	3.8	3
	C	5.1	5.1	5.1
TV103	E	0	0	0
	B	4.9	4.9	4.9
	C	0	0	0
TV126	E	0	0	0
	B	2.3	2.3	2.3
	C	-0.1	0	0
TV127	E	4.3	4.3	4.3
	B	3.7	3.7	3.7
	C	2.4	2.4	2.4
TV130	E	1.7	1.7	1.7
	B	2.4	2.4	2.4
	C	5.1	5.1	5.1
TV135	E	2.4	2.1	2.4
	B	3	2.7	3
	C	5.1	5.1	5.1
TV140	E	1.6	1.6	1.6
	B	1	1	1
	C	5	5	5
TV141	E	1.6	1.6	1.6
	B	2.3	2.3	2.3
	C	5.1	5.1	5.1
TV143	E	2.4	2.4	2.4
	B	1.8	1.8	1.8
	C	0	0	0
TV145	E	3.3	3.3	3.3
	B	2.4	2.4	2.4
	C	5.1	5.1	5.1
TV147	E	3.3	3.3	3.3
	B	4	4	4
	C	3.4	3.4	3.4

VIDEO		MODE		
LOC	PIN	EE	PLAY	REC.
TV149	E	3.4	3.4	3.4
	B	4	4	4
	C	0.2	0.2	0.2
TV154	E	1.8	1.6	1.8
	B	2.4	2.2	2.4
	C	5.1	5.1	5.1
TV164	E	0.2	0.2	0.2
	B	2.7	2.7	2.7
	C	0.2	0.2	0.2
TV170	E	0	0	0
	B	0	4.7	0
	C	5.1	0	5.1
TV171	E	5.1	5.1	5.1
	B	5.1	4.3	5.1
	C	0	5	0
TV186	E	0	0	0
	B	0	0	0
	C	0.3	0.3	0.3
TV187	E	0	0	0
	B	0.3	0.3	0.3
	C	0	1.2	1.2
TV188	E	1.9	1.9	4.1
	B	0	0	4.8
	C	5.1	5.1	5.1
TV200	E	2.7	4.4	2.7
	B	3.3	5	3.3
	C	5.1	5.1	5.1
TV201	E	1.2	4.3	1.2
	B	1.8	1.8	1.8
	C	3.3	5.1	3.3
TV223	E	0	1.1	0
	B	0	1.7	0
	C	0	3.6	0
TV225	E	0	0	0
	B	0	0	0
	C	0	0	0
TV227	E	0	3	0
	B	0	3.6	0
	C	0	5	0

VIDEO		MODE		
LOC	PIN	EE	PLAY	REC.
TV243	E	0	3.6	0
	B	0	2.9	0
	C	0	1.8	0
TV248	E	0	1.2	0
	B	0	1.8	0
	C	0	3.7	0
TV250	E	0	0.6	0
	B	0	1.2	0
	C	0	4.6	0
TV251	E	0	3.9	0
	B	0	4.5	0
	C	0	5	0

NOTES

MEASUREMENTS VIDEO SIGNAL PROCESSING - MESURES TRAITEMENT VIDEO - MESSUNGEN VIDEO SIGNALVERARBEITUNG
MISURI ELABORAZIONE VIDEO - MEDIDAS TRATAMIENTO VIDEO



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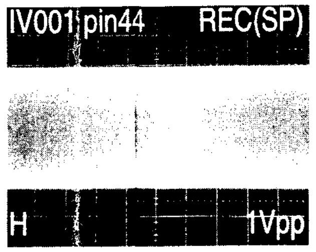

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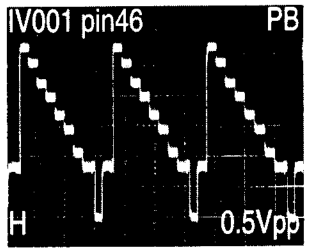

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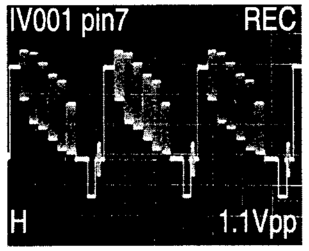

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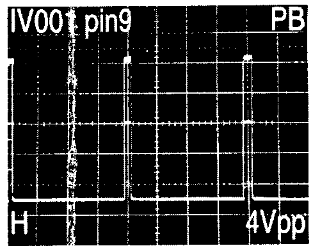

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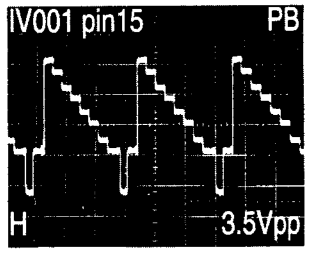

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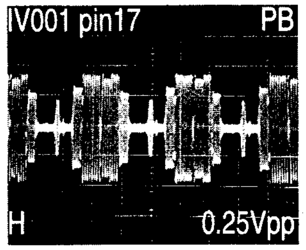

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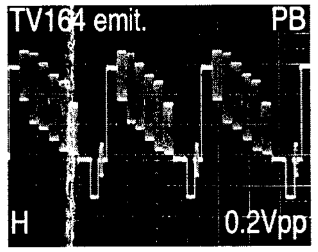

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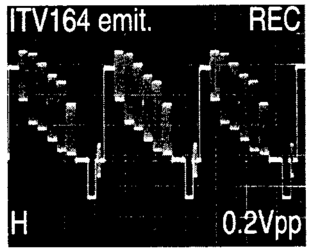

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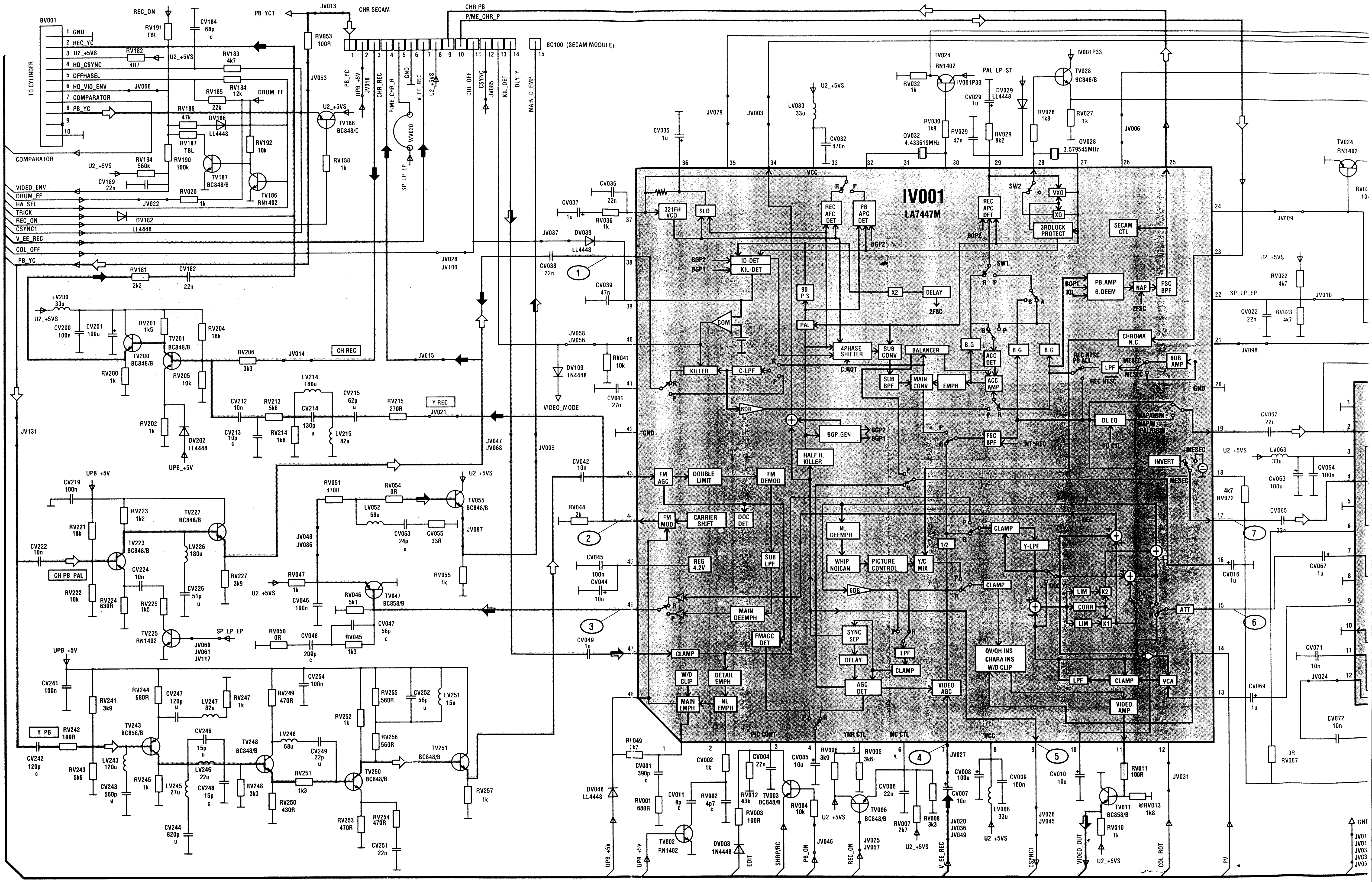
NOTES

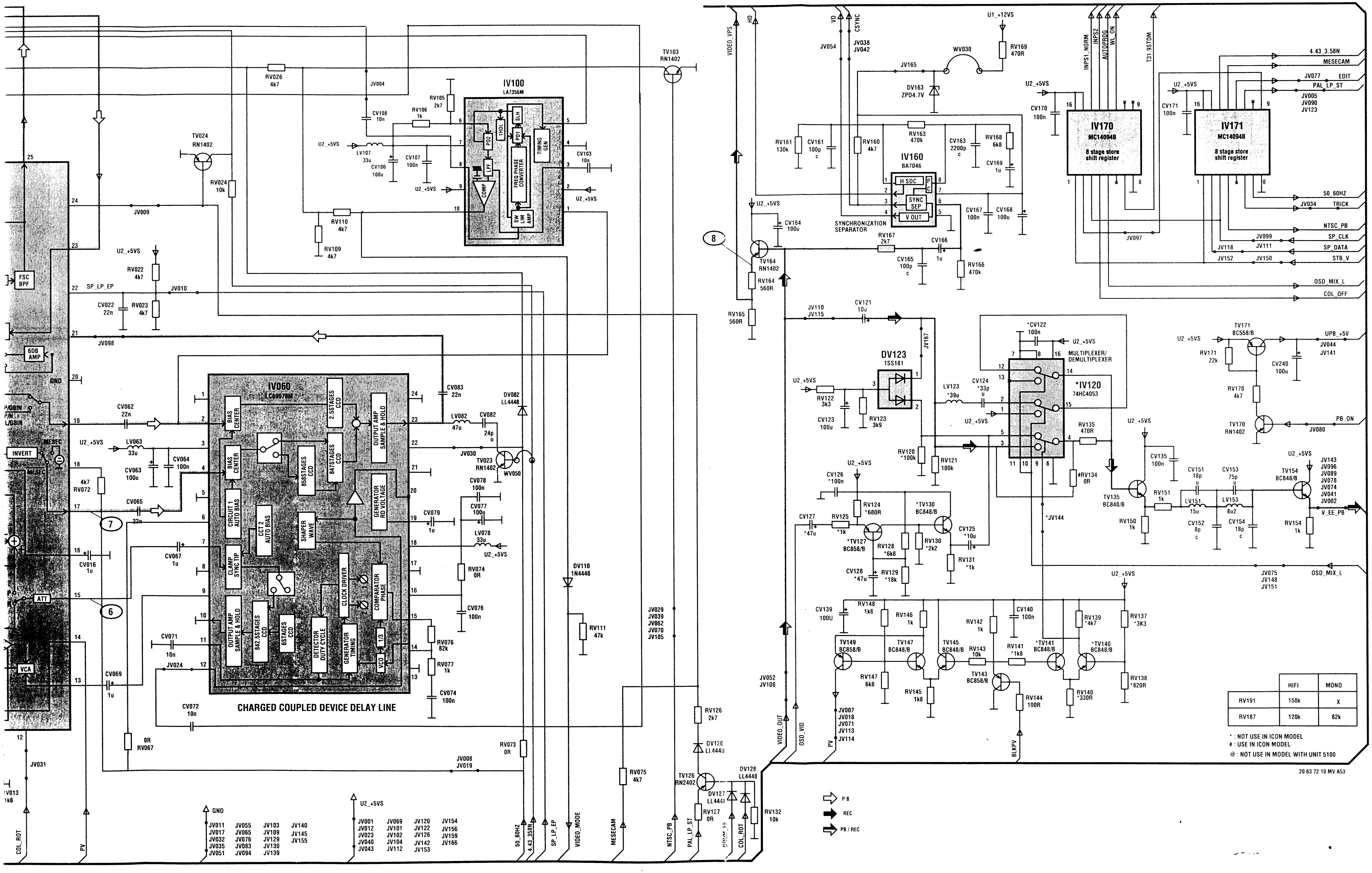
VIDEO SIGNAL PROCESSING - TRAITEMENT LUMINANCE / CHROMINANCE - VIDEO SIGNALVERARBEITUNG - ELABORAZIONE VIDEO - TRATAMIENTO VIDEO

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA (VPH 6790)



BV001
TO CYLINDER
1 GND
2 REC_YC
3 U2_+5VS
4 HD_CSYNC
5 DFFHASEL
6 HD_VID_ENV
7 COMPARATOR
8 PB_YC
COMPARATOR
VIDEO_ENV
DRUM_FF
HA_SEL
TRICK
REC_ON
CSYNC1
V_EE_REC
COL_OFF
PB_YC
REC_ON
PB_YC1
JV013
CHR SECAM
CHR PB
P/ME_CHR_P
BC100 (SECAM MODULE)
TV188 BC848/C
TV187 BC848/B
TV186 RN1402
CH REC
Y REC
CH PB PAL
Y PB
TV201 BC848/B
TV200 BC848/B
TV223 BC848/B
TV227 BC848/B
TV225 RN1402
TV055 BC848/B
TV047 BC858/B
TV243 BC858/B
TV248 BC848/B
TV250 BC848/B
TV251 BC848/B
SP_LP_EP
VIDEO_MODE
IV001
LA7447M
321FH VCO
SLD
REC AFC DET
PB APC DET
REC APC DET
VXO
XO
3RDLOCK PROTECT
SECAM CTL
ID-DET
KIL-DET
90 P.S
PAL
X2
DELAY
2FSC
PB.AMP B.DEEM
NAP
FSC BPF
COM
4PHASE SHIFTER
C.ROT
SUB CONV
BALANCER
SUB BPF
MAIN CONV
EMPH
ACC DET
ACC AMP
B.G
CHROMA N.C.
LPF
6DB AMP
KILLER
C-LPF
6DB
BGP.GEN
HALF H. KILLER
FSC BPF
DL EQ
INVERT
FM AGC
DOUBLE LIMIT
FM DEMOD
FM MOD
CARRIER SHIFT
DOC DET
NL DEEMPH
REG 4.2V
SUB LPF
WHIP NOICAN
PICTURE CONTROL
Y/C MIX
1/2
CLAMP
Y-LPF
MAIN DEEMPH
FMAGC DET
SYNC SEP
LPF
LIM
CORR
K1
K2
ATT
W/D CLIP
DETAIL EMPH
AGC DET
VIDEO AGC
QV/QH INS CHARA INS W/D CLIP
VCA
VIDEO AMP
MAIN EMPH
NL EMPH
PIC CONT
YNR CTL
NC CTL
VCC
GND
QV032 4.433619MHz
QV028 3.579545MHz
TV024 RN1402
TV028 BC848/B
TV002 RN1402
TV003 BC848/B
TV006 BC848/B
TV011 BC858/B
UPB_+5V
U2_+5VS
EDIT
SHRP/RC
PB_ON
REC_ON
V_EE_REC
CSYNC1
VIDEO_OUT
COL_ROT
PV

TAMIENTO VIDEO

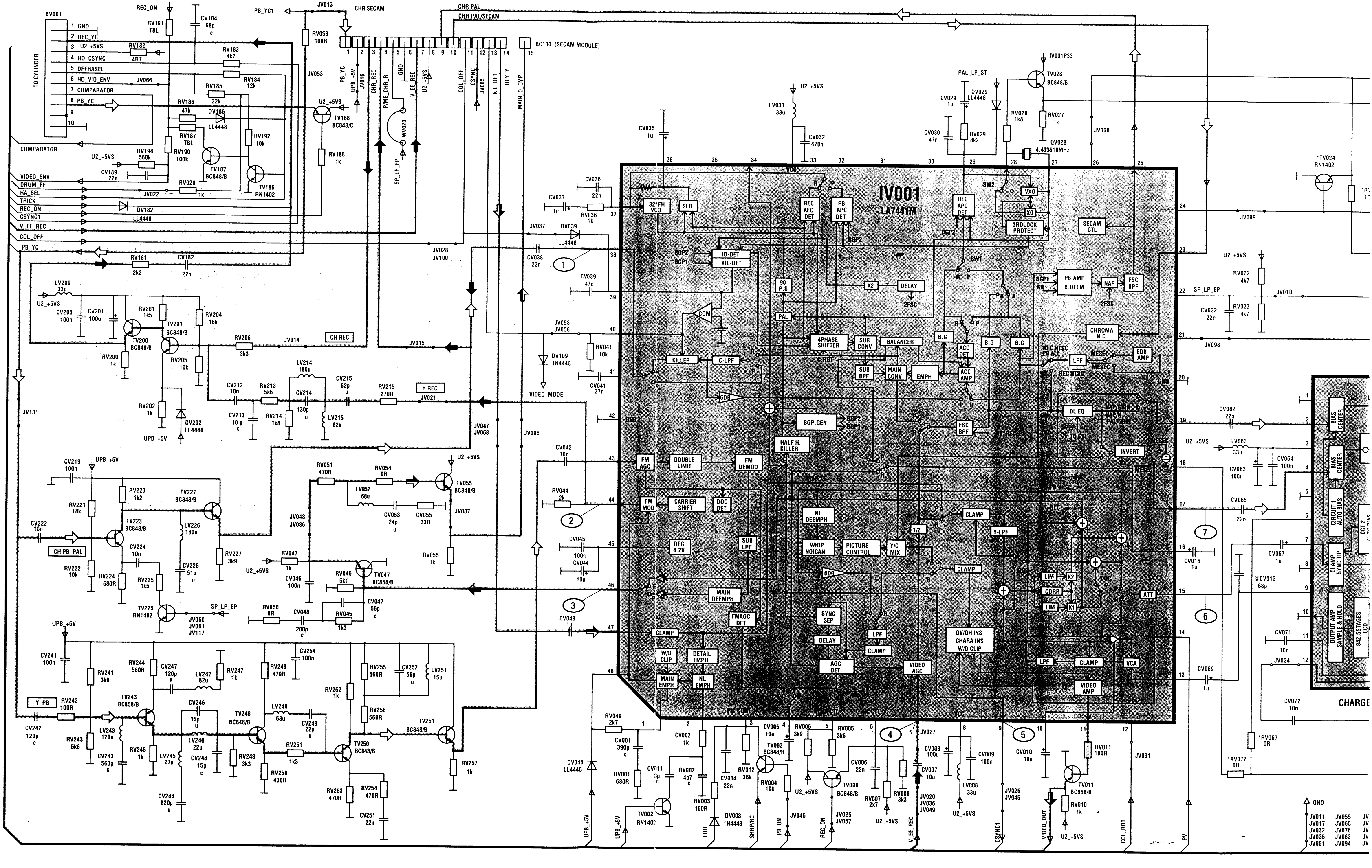

IV100
LA7356M
PD2
HOLD
SLH
PD1
TIMING GEN
LPF
FREQ PHASE CONVERTER
COMP
SW LIM AMP
IV060
LC89970M
BIAS CENTER
2.5STAGES CCD
OUTPUT AMP SAMPLE & HOLD
858STAGES CCD
847STAGES CCD
CIRCUIT 1 AUTO BIAS
CCT 2 AUTO BIAS
SHAPER WAVE
GENERATOR RD VOLTAGE
CLAMP SYNC TIP
CLOCK DRIVER
COMPARATOR PHASE
842.5STAGES CCD
6STAGES CCD
DETECTOR DUTY CYCLE
GENERATOR TIMING
VCO
1/3
CHARGED COUPLED DEVICE DELAY LINE
IV160
BA7046
H SDC
SYNC SEP
V OUT
SYNCHRONIZATION SEPARATOR
IV170
MC14094B
8 stage store shift register
IV171
MC14094B
8 stage store shift register
DV123
1SS181
*IV120
74HC4053
MULTIPLEXER/ DEMULTIPLEXER
TV103 RN1402
TV024 RN1402
TV023 RN1402
TV164 RN1402
TV126 RN2402
TV171 BC558/B
TV170 RN1402
TV135 BC848/B
TV154 BC848/B
*TV127 BC858/B
*TV130 BC848/B
TV149 BC858/B
TV147 BC848/B
TV145 BC848/B
TV143 BC858/B
*TV141 BC848/B
*TV140 BC848/B
WV050
WV030
DV082 LL4448
DV110 1N4448
DV163 ZPD4.7V
DV127 LL4448
DV128 LL4448
FSC BPF
6DB AMP
INVERT
ATT
VCA
MESEC
GND
U2_+5VS
U1_+12VS
VIDEO_VPS
HD
VD
CSYNC
INPS1_NORM
INPS2
AUTOPROG
WL_ON
T31_9STDM
4.43_3.58N
MESECAM
EDIT
PAL_LP_ST
50_60HZ
TRICK
NTSC_PB
SP_CLK
SP_DATA
STB_V
OSD_MIX_L
COL_OFF
UPB_+5V
PB_ON
V_EE_PB
VIDEO_OUT
OSD_VID
PV
BLKPV
COL_ROT
50_60HZ
4.43_358N
SP_LP_EP
VIDEO_MODE
MESECAM
NTSC_PB
PAL_LP_ST
COL_ROT
SP_LP_EP
6
7
8
PB
REC
PB / REC
GND
JV011 JV017 JV032 JV035 JV051
JV055 JV065 JV076 JV083 JV094
JV103 JV109 JV129 JV130 JV139
JV140 JV145 JV155
U2_+5VS
JV001 JV012 JV023 JV040 JV043
JV069 JV101 JV102 JV104 JV112
JV120 JV122 JV126 JV142 JV153
JV154 JV156 JV159 JV166
20 63 72 10 MV A53

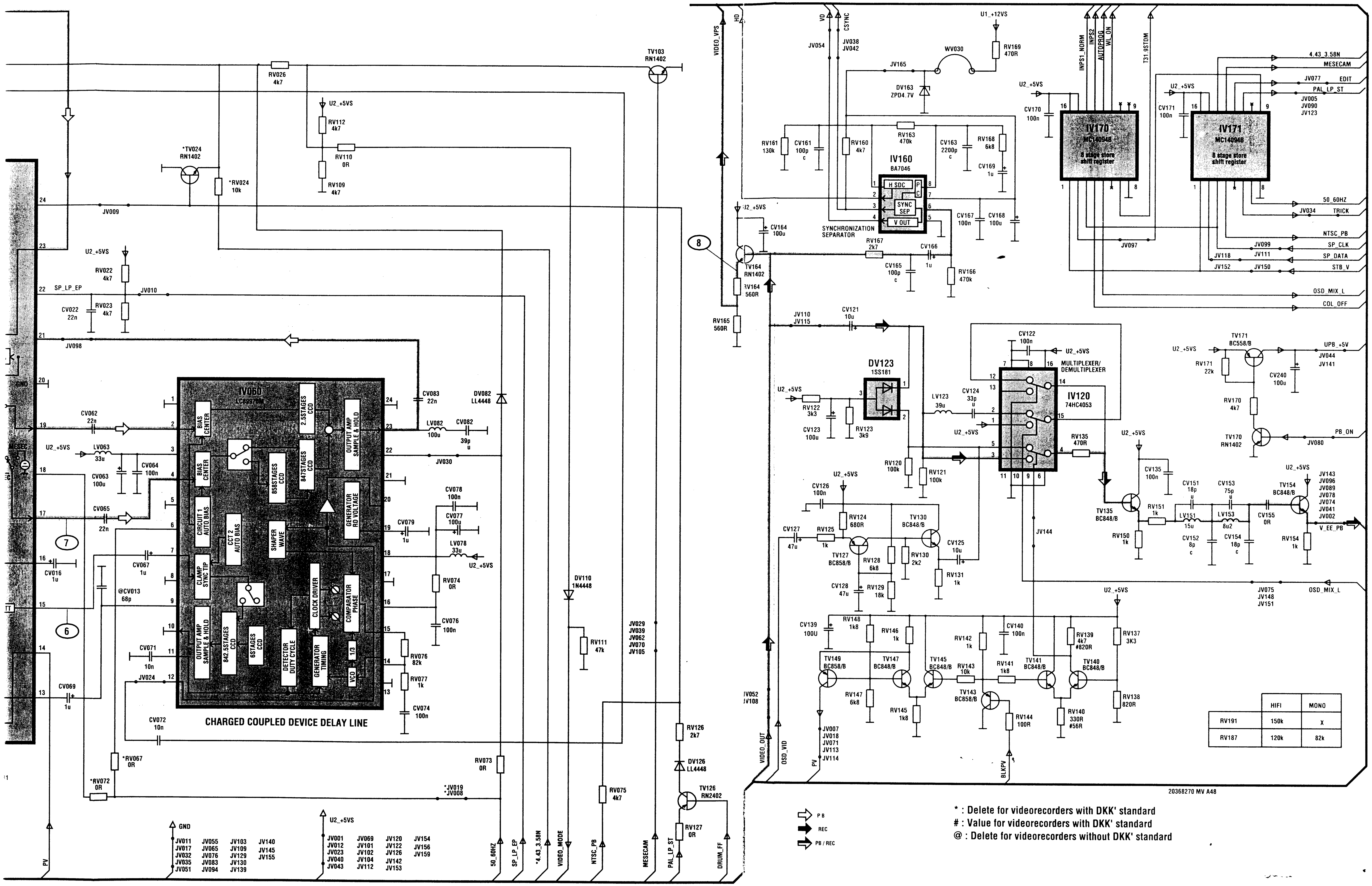
	HIFI	MONO
RV191	150k	X
RV187	120k	82k

* : NOT USE IN ICON MODEL
# : USE IN ICON MODEL
@ : NOT USE IN MODEL WITH UNIT 5100

VIDEO SIGNAL PROCESSING - TRAITEMENT LUMINANCE / CHROMINANCE - VIDEO SIGNALVERARBEITUNG - ELABORAZIONE VIDEO - TRATAMIENTO VIDEO

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA (M9571 HIFI - VR 6087/F - VR 8087 - VPH 6750)


BV001
1 GND
2 REC_YC
3 U2_+5VS
4 HD_CSYNC
5 DFFHASEL
6 HD_VID_ENV
7 COMPARATOR
8 PB_YC
9
10
TO CYLINDER
COMPARATOR
VIDEO_ENV
DRUM_FF
HA_SEL
TRICK
REC_ON
CSYNC1
V_EE_REC
COL_OFF
PB_YC
REC_ON
RV191 TBL
CV184 68p
PB_YC1
JV013
CHR SECAM
CHR PAL
CHR PAL/SECAM
RV053 100R
BC100 (SECAM MODULE)
PB_YC
UPB_+5V
JV016
CHR_REC
P/ME_CHR_R
GND
V_EE_REC
U2_+5VS
COL_OFF
CSYNC
JV085
KIL_DET
DLY_Y
MAIN_D_EMP
WV020
SP_LP_EP
RV182 4R7
RV183 4k7
JV066
RV184 12k
RV185 22k
RV186 47k
DV186 LL4448
RV187 TBL
RV190 100k
RV192 10k
TV188 BC848/C
RV188 1k
TV187 BC848/B
TV186 RN1402
RV194 560k
CV189 22n
RV020 1k
JV022
DV182 LL4448
JV053
RV181 2k2
CV182 22n
LV200 33u
U2_+5VS
CV200 100n
CV201 100u
RV201 1k5
TV201 BC848/B
RV204 18k
TV200 BC848/B
RV200 1k
RV205 10k
RV206 3k3
JV014
CH REC
JV015
RV202 1k
DV202 LL4448
UPB_+5V
CV212 10n
CV213 10p
RV213 5k6
RV214 1k8
LV214 180u
CV214 130p
CV215 62p
LV215 82u
RV215 270R
Y REC
JV021
JV047
JV068
JV131
CV219 100n
RV221 18k
RV223 1k2
TV227 BC848/B
TV223 BC848/B
LV226 180u
CV222 10n
CH PB PAL
CV224 10n
CV226 51p
RV227 3k9
RV222 10k
RV224 680R
RV225 1k5
TV225 RN1402
SP_LP_EP
JV060
JV061
JV117
RV051 470R
RV054 0R
TV055 BC848/B
LV052 68u
CV053 24p
CV055 33R
JV048
JV086
JV087
RV047 1k
U2_+5VS
CV046 100n
RV046 5k1
TV047 BC858/B
RV055 1k
CV047 56p
RV050 0R
CV048 200p
RV045 1k3
UPB_+5V
CV241 100n
RV241 3k9
RV244 560R
CV247 120p
LV247 82u
RV247 1k
RV249 470R
CV254 100n
RV255 560R
CV252 56p
LV251 15u
RV252 1k
Y PB
RV242 100R
TV243 BC858/B
CV246 15p
TV248 BC848/B
LV248 68u
CV249 22p
RV256 560R
TV251 BC848/B
CV242 120p
RV243 5k6
LV243 120u
CV243 560p
RV245 1k
LV245 27u
LV246 22u
CV248 15p
RV248 3k3
RV251 1k3
TV250 BC848/B
RV250 430R
RV253 470R
RV254 470R
RV257 1k
CV251 22n
CV244 820p
JV028
JV100
JV037
DV039 LL4448
CV038 22n
CV039 47n
CV036 22n
CV037 1u
RV036 1k
JV058
JV056
RV041 10k
DV109 1N4448
CV041 27n
VIDEO_MODE
JV095
CV042 10n
RV044 2k
CV045 100n
CV044 10u
CV049 1u
U2_+5VS
LV033 33u
CV035 1u
CV032 470n
IV001P33
PAL_LP_ST
TV028 BC848/B
CV029 1u
DV029 LL4448
RV028 1k8
RV027 1k
CV030 47n
RV029 8k2
QV028 4.433619MHz
JV006
TV024 RN1402
IV001
LA7441M
VCC
32fH VCO
SLD
REC AFC DET
PB APC DET
REC APC DET
VXO
XO
3RDLOCK PROTECT
SECAM CTL
SW2
BGP2
BGP1
ID-DET
KIL-DET
SW1
90 P.S
X2
DELAY
2FSC
PB.AMP B.DEEM
NAP
FSC BPF
COM
PAL
4PHASE SHIFTER
SUB CONV
BALANCER
B.G
ACC DET
ACC AMP
CHROMA N.C.
KILLER
C-LPF
C.ROT
SUB BPF
MAIN CONV
EMPH
LPF
6DB AMP
REC NTSC
PB ALL
MESEC
6DB
BGP.GEN
FSC BPF
DL EQ
NAP/GBIN
NAP/N PAL/GBIN
HALF H. KILLER
INVERT
FM AGC
DOUBLE LIMIT
FM DEMOD
FM MOD
CARRIER SHIFT
DOC DET
NL DEEMPH
CLAMP
Y-LPF
REG 4.2V
SUB LPF
WHIP NOICAN
PICTURE CONTROL
Y/C MIX
1/2
6DB
LIM
K2
CORR
K1
DOC
ATT
MAIN DEEMPH
SYNC SEP
FMAGC DET
DELAY
LPF
CLAMP
QV/QH INS CHARA INS W/D CLIP
W/D CLIP
DETAIL EMPH
AGC DET
VIDEO AGC
LPF
CLAMP
VCA
MAIN EMPH
NL EMPH
VIDEO AMP
GND
U2_+5VS
RV022 4k7
SP_LP_EP
JV010
CV022 22n
RV023 4k7
JV009
JV098
CV062 22n
LV063 33u
CV063 100u
CV064 100n
CV065 22n
CV016 1u
CV067 1u
@CV013 68p
CV071 10n
JV024
CV069 1u
CV072 10n
RV067 0R
RV072 0R
BIAS CENTER
BIAS CENTER
CIRCUIT 1 AUTO BIAS
CLAMP SYNC TIP
OUTPUT AMP SAMPLE & HOLD
842.5STAGES CCD
CHARGE
RV049 2k7
CV001 390p
RV001 680R
DV048 LL4448
CV011 3p
TV002 RN1402
RV002 4p7
CV002 1k
RV003 100R
CV004 22n
DV003 1N4448
RV012 36k
TV003 BC848/B
CV005 10u
RV006 3k9
RV004 10k
RV005 3k6
TV006 BC848/B
CV006 22n
RV007 2k7
RV008 3k3
JV027
CV007 10u
JV020
JV036
JV049
CV008 100u
LV008 33u
CV009 100n
CV010 10u
JV026
JV045
RV011 100R
TV011 BC858/B
RV010 1k
JV031
JV046
JV025
JV057
U2_+5VS
UPB_+5V
UPB_+5V
EDIT
SHRP/RC
PB_ON
REC_ON
V_EE_REC
CSYNC1
VIDEO_OUT
COL_ROT
PV
GND
JV011
JV017
JV032
JV035
JV051
JV055
JV065
JV076
JV083
JV094
①
②
③
④
⑤
⑥
⑦


IV060
LC89970M
CHARGED COUPLED DEVICE DELAY LINE
BIAS CENTER
CIRCUIT 1 AUTO BIAS
CLAMP SYNC TIP
OUTPUT AMP SAMPLE & HOLD
CCT 2 AUTO BIAS
858STAGES CCD
847STAGES CCD
2.5STAGES CCD
842.5STAGES CCD
6STAGES CCD
SHAPER WAVE
GENERATOR RD VOLTAGE
CLOCK DRIVER
COMPARATOR PHASE
DETECTOR DUTY CYCLE
GENERATOR TIMING
VCO
1/3
IV160
BA7046
H SDC
SYNC SEP
V OUT
SYNCHRONIZATION SEPARATOR
IV170
MC14094B
8 stage store shift register
IV171
MC14094B
8 stage store shift register
IV120
74HC4053
MULTIPLEXER/ DEMULTIPLEXER
DV123
1SS181
TV103 RN1402
*TV024 RN1402
TV164 RN1402
TV126 RN2402
TV171 BC558/B
TV170 RN1402
TV135 BC848/B
TV154 BC848/B
TV127 BC858/B
TV130 BC848/B
TV149 BC858/B
TV147 BC848/B
TV145 BC848/B
TV143 BC858/B
TV141 BC848/B
TV140 BC848/B
VIDEO_VPS
HD
VD
CSYNC
U1_+12VS
U2_+5VS
INPS1_NORM
INPS2
AUTOPROG
WL_ON
T31_9STDM
4.43_3.58N
MESECAM
EDIT
PAL_LP_ST
50_60HZ
TRICK
NTSC_PB
SP_CLK
SP_DATA
STB_V
OSD_MIX_L
COL_OFF
UPB_+5V
PB_ON
V_EE_PB
VIDEO_OUT
OSD_VID
PV
BLKPV
SP_LP_EP
50_60HZ
*4.43_3.58N
VIDEO_MODE
NTSC_PB
PAL_LP_ST
DRUM_FF
GND
20368270 MV A48
PB
REC
PB / REC

	HIFI	MONO
RV191	150k	X
RV187	120k	82k

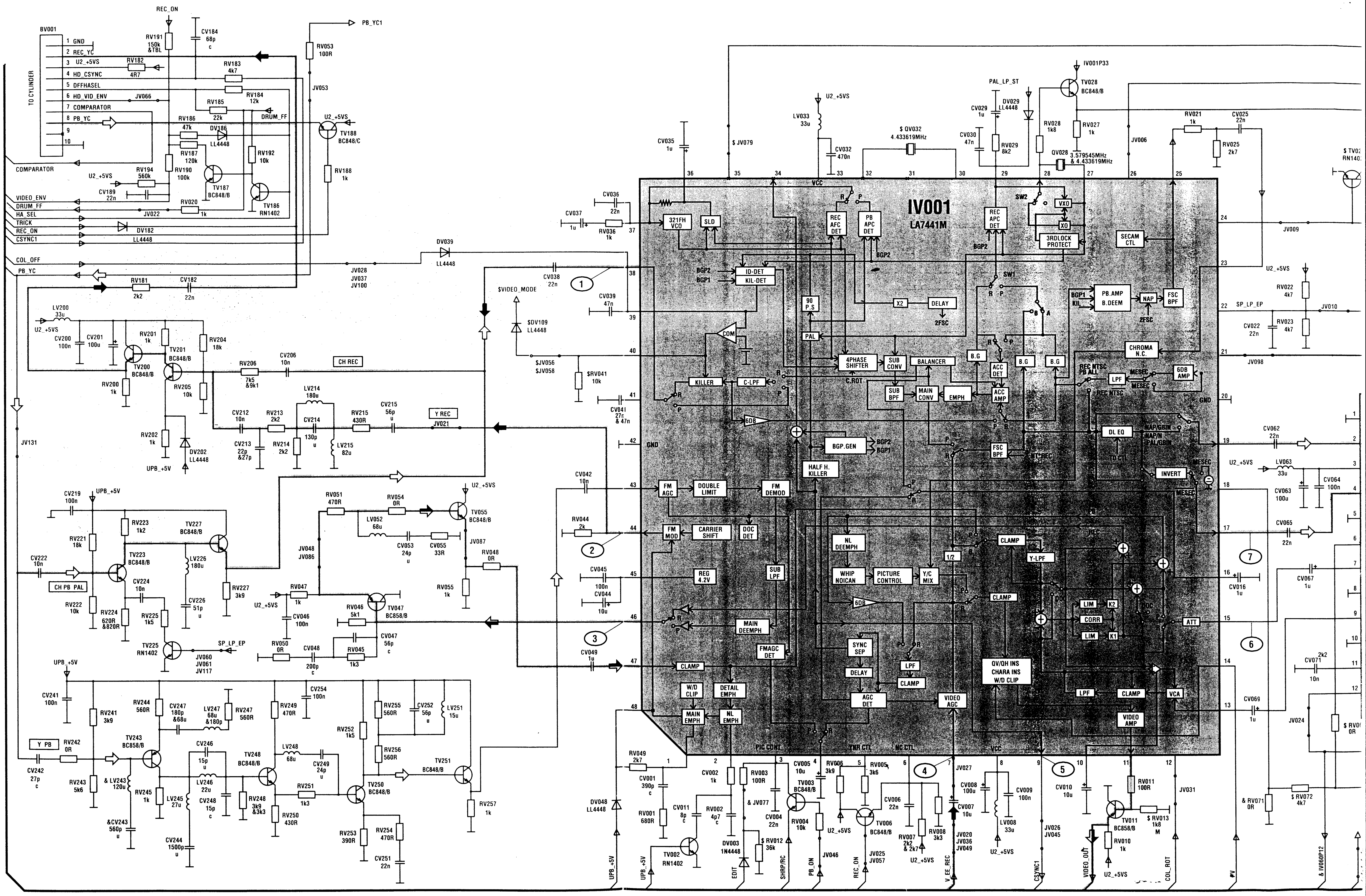
* : Delete for videorecorders with DKK' standard

# : Value for videorecorders with DKK' standard

@ : Delete for videorecorders without DKK' standard

VIDEO SIGNAL PROCESSING - TRAITEMENT LUMINANCE / CHROMINANCE - VIDEO SIGNALVERARBEITUNG - ELABORAZIONE VIDEO - TRATAMIENTO VIDEO

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA (**VR 6081 - VR 7081 - VR 8083SH -V 3450 SV - VPH 66001 - VPH 6697 SENSAR - VPH 6751 - M 9560 HIFI/SA - T**



REC_ON
PB_YC1
BV001
TO CYLINDER
1 GND
2 REC_YC
3 U2_+5VS
4 HD_CSYNC
5 DFFHASEL
6 HD_VID_ENV
7 COMPARATOR
8 PB_YC
9
10
RV191 150k &TBL
CV184 68p c
RV053 100R
RV182 4R7
RV183 4k7
RV184 12k
RV185 22k
DRUM_FF
JV053
JV066
RV186 47k
DV186 LL4448
U2_+5VS
TV188 BC848/C
RV187 120k
RV190 100k
RV192 10k
RV188 1k
TV187 BC848/B
TV186 RN1402
RV194 560k
CV189 22n
RV020 1k
JV022
COMPARATOR
VIDEO_ENV
DRUM_FF
HA_SEL
TRICK
REC_ON
CSYNC1
DV182 LL4448
COL_OFF
PB_YC
DV039 LL4448
JV028 JV037 JV100
RV181 2k2
CV182 22n
LV200 33u
U2_+5VS
CV200 100n
CV201 100u
RV201 1k
TV201 BC848/B
RV204 18k
TV200 BC848/B
RV200 1k
RV205 10k
RV206 7k5 &9k1
CV206 10n
CH REC
RV202 1k
DV202 LL4448
UPB_+5V
JV131
CV212 10n
RV213 2k2
LV214 180u
CV214 130p u
RV215 430R
CV215 56p u
Y REC
JV021
CV213 22p &27p
RV214 2k2
LV215 82u
$VIDEO_MODE
$DV109 LL4448
CV038 22n
CV039 47n
CV036 22n
CV037 1u
RV036 1k
$JV056 $JV058
$RV041 10k
CV041 27n & 47n
CV219 100n
UPB_+5V
RV223 1k2
TV227 BC848/B
RV221 18k
CV222 10n
TV223 BC848/B
LV226 180u
CH PB PAL
CV224 10n
RV227 3k9
CV226 51p u
RV222 10k
RV224 620R &820R
RV225 1k5
TV225 RN1402
SP_LP_EP
JV060 JV061 JV117
RV051 470R
RV054 0R
TV055 BC848/B
U2_+5VS
LV052 68u
CV053 24p u
CV055 33R
JV087
RV048 0R
JV048 JV086
RV047 1k
RV046 5k1
TV047 BC858/B
CV046 100n
RV055 1k
CV047 56p c
RV050 0R
CV048 200p c
RV045 1k3
CV042 10n
RV044 2k
CV045 100n
CV044 10u
CV049 1u
UPB_+5V
CV241 100n
RV241 3k9
RV244 560R
CV247 180p &68u
LV247 68u &180p
RV247 560R
RV249 470R
CV254 100n
RV255 560R
CV252 56p u
LV251 15u
Y PB
RV242 0R
TV243 BC858/B
CV242 27p c
RV243 5k6
& LV243 120u
RV245 1k
&CV243 560p u
CV246 15p u
LV246 22u
LV245 27u
CV248 15p c
CV244 1500p u
RV248 3k9 &3k3
TV248 BC848/B
LV248 68u
CV249 24p u
RV252 1k5
RV256 560R
TV251 BC848/B
RV251 1k3
RV250 430R
TV250 BC848/B
RV253 390R
RV254 470R
CV251 22n
RV257 1k
IV001
LA7441M
IV001P33
TV028 BC848/B
PAL_LP_ST
U2_+5VS
LV033 33u
$ JV079
$ QV032 4.433619MHz
CV035 1u
CV032 470n
CV029 1u
DV029 LL4448
CV030 47n
RV029 8k2
RV028 1k8
RV027 1k
QV028 3.579545MHz & 4.433619MHz
JV006
RV021 1k
CV025 22n
RV025 2k7
$ TV0 RN140
VCC
321FH VCO
SLD
REC AFC DET
PB APC DET
REC APC DET
SW2
VXO
XO
3RDLOCK PROTECT
SECAM CTL
BGP2
BGP1
ID-DET
KIL-DET
90 P.S
X2
DELAY
2FSC
SW1
PB.AMP B.DEEM
NAP
FSC BPF
BGP1 KIL
COM
PAL
4PHASE SHIFTER
SUB CONV
BALANCER
B.G
ACC DET
CHROMA N.C.
REC NTSC PB ALL
MESEC
LPF
6DB AMP
KILLER
C-LPF
C.ROT
SUB BPF
MAIN CONV
EMPH
ACC AMP
GND
6DB
BGP.GEN
FSC BPF
DL EQ
NAP/GBIN
NAP/N PAL/GBIN
HALF H. KILLER
INVERT
MESEC
FM AGC
DOUBLE LIMIT
FM DEMOD
FM MOD
CARRIER SHIFT
DOC DET
NL DEEMPH
CLAMP
Y-LPF
1/2
REG 4.2V
SUB LPF
WHIP NOICAN
PICTURE CONTROL
Y/C MIX
LIM
K2
CORR
K1
ATT
MAIN DEEMPH
FMAGC DET
SYNC SEP
DELAY
LPF
CLAMP
QV/QH INS CHARA INS W/D CLIP
W/D CLIP
DETAIL EMPH
AGC DET
VIDEO AGC
LPF
VCA
MAIN EMPH
NL EMPH
VIDEO AMP
PIC CONT
TRR CTL
MC CTL
1
2
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47
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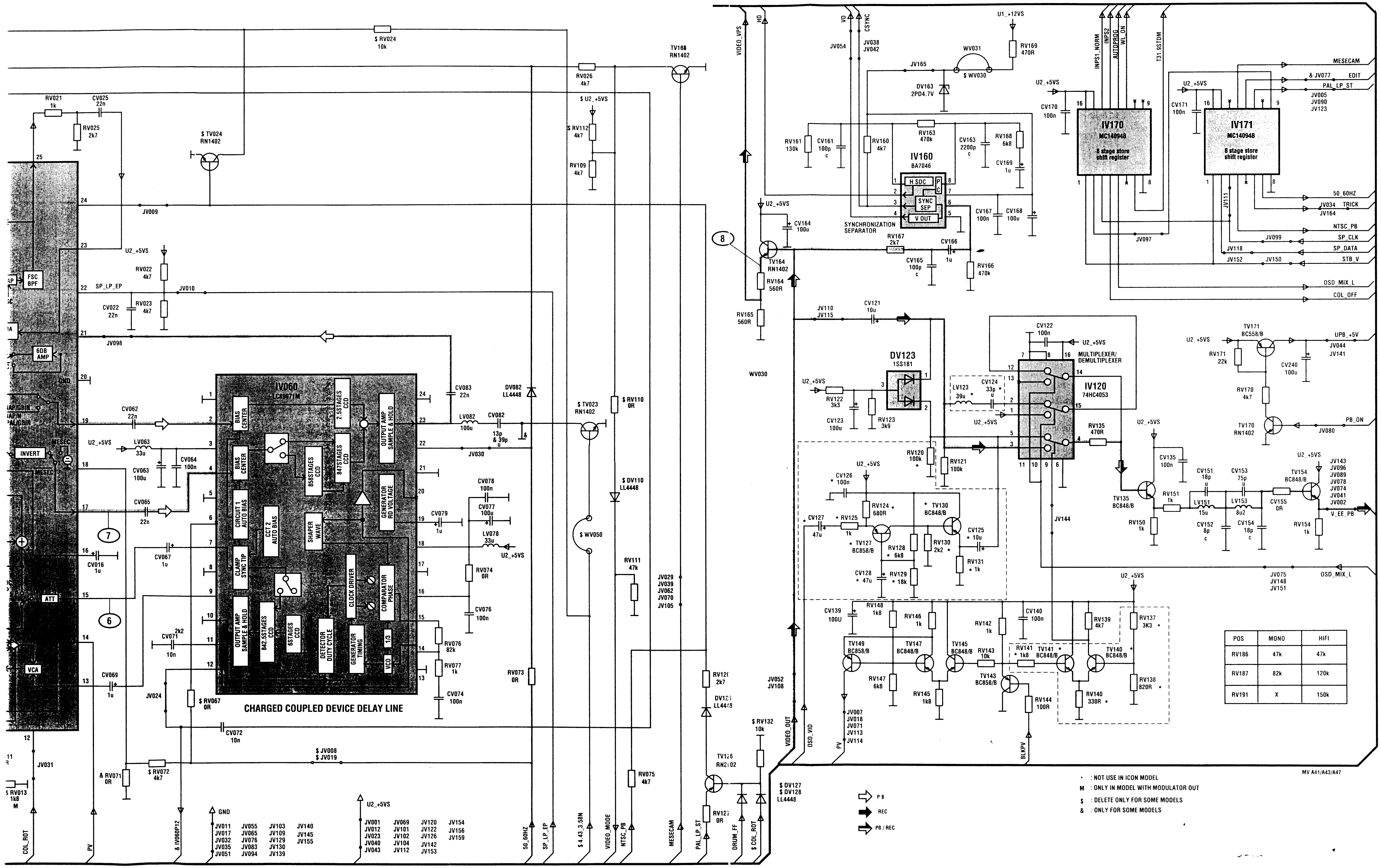
JV009
U2_+5VS
RV022 4k7
SP_LP_EP
JV010
CV022 22n
RV023 4k7
JV098
CV062 22n
U2_+5VS
LV063 33u
CV063 100u
CV064 100n
CV065 22n
CV016 1u
CV067 1u
2k2
CV071 10n
CV069 1u
JV024
$ RV0 0R
RV049 2k7
DV048 LL4448
CV001 390p c
RV001 680R
CV011 8p c
TV002 RN1402
CV002 1k
RV003 100R
& JV077
RV002 4p7 c
DV003 1N4448
CV004 22n
$ RV012 36k
CV005 10u
TV003 BC848/B
RV004 10k
JV046
RV006 3k9
RV005 3k6
TV006 BC848/B
CV006 22n
RV007 2k2 & 2k7
RV008 3k3
JV025 JV057
U2_+5VS
JV027
CV007 10u
JV020 JV036 JV049
CV008 100u
LV008 33u
CV009 100n
U2_+5VS
JV026 JV045
CV010 10u
RV011 100R
$ RV013 1k8 M
TV011 BC858/B
RV010 1k
U2_+5VS
JV031
& RV071 0R
$ RV072 4k7
UPB_+5V
UPB_+5V
EDIT
SHRP/RC
PB_ON
REC_ON
V_EE_REC
CSYNC1
VIDEO_OUT
COL_ROT
PV
& IV060P12


IV060
LC89971M
CHARGED COUPLED DEVICE DELAY LINE
BIAS CENTER
2.5STAGES CCD
OUTPUT AMP SAMPLE & HOLD
858STAGES CCD
847STAGES CCD
CIRCUIT 1 AUTO BIAS
CCT 2 AUTO BIAS
SHAPER WAVE
GENERATOR RD VOLTAGE
CLAMP SYNC TIP
CLOCK DRIVER
COMPARATOR PHASE
842.5STAGES CCD
6STAGES CCD
DETECTOR DUTY CYCLE
GENERATOR TIMING
1/3
VCO
IV160
BA7046
H SDC
SYNC SEP
V OUT
SYNCHRONIZATION SEPARATOR
IV170
MC14094B
8 stage store shift register
IV171
MC14094B
8 stage store shift register
IV120
74HC4053
MULTIPLEXER/ DEMULTIPLEXER
DV123
1SS181
FSC BPF
6DB AMP
INVERT
ATT
VCA
MESEC
VIDEO_VPS
HD
VD
CSYNC
U1_+12VS
U2_+5VS
INPS1_NORM
INPS2
AUTOPROG
WL_ON
T31_9STDM
MESECAM
EDIT
PAL_LP_ST
50_60HZ
TRICK
NTSC_PB
SP_CLK
SP_DATA
STB_V
OSD_MIX_L
COL_OFF
UPB_+5V
PB_ON
V_EE_PB
OSD_MIX_L
VIDEO_OUT
OSD_VID
PV
BLKPV
COL_ROT
& IV060P12
GND
SP_LP_EP
$ 4.43_3.58N
VIDEO_MODE
NTSC_PB
MESECAM
PAL_LP_ST
DRUM_FF
$ COL_ROT
8
7
6
MV A41/A43/A47

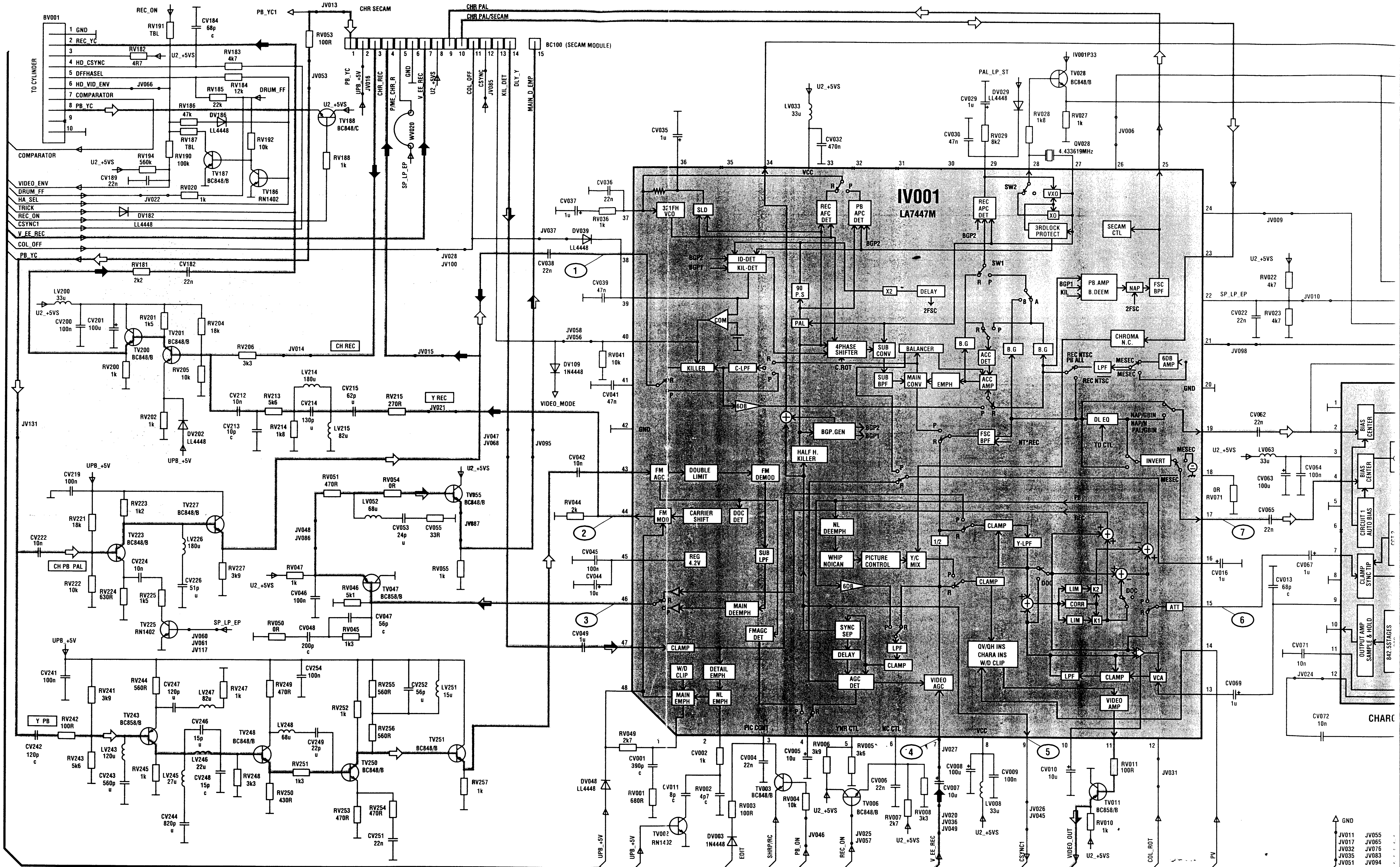
POS	MONO	HIFI
RV186	47k	47k
RV187	82k	120k
RV191	X	150k

• : NOT USE IN ICON MODEL
M : ONLY IN MODEL WITH MODULATOR OUT
$: DELETE ONLY FOR SOME MODELS
& : ONLY FOR SOME MODELS

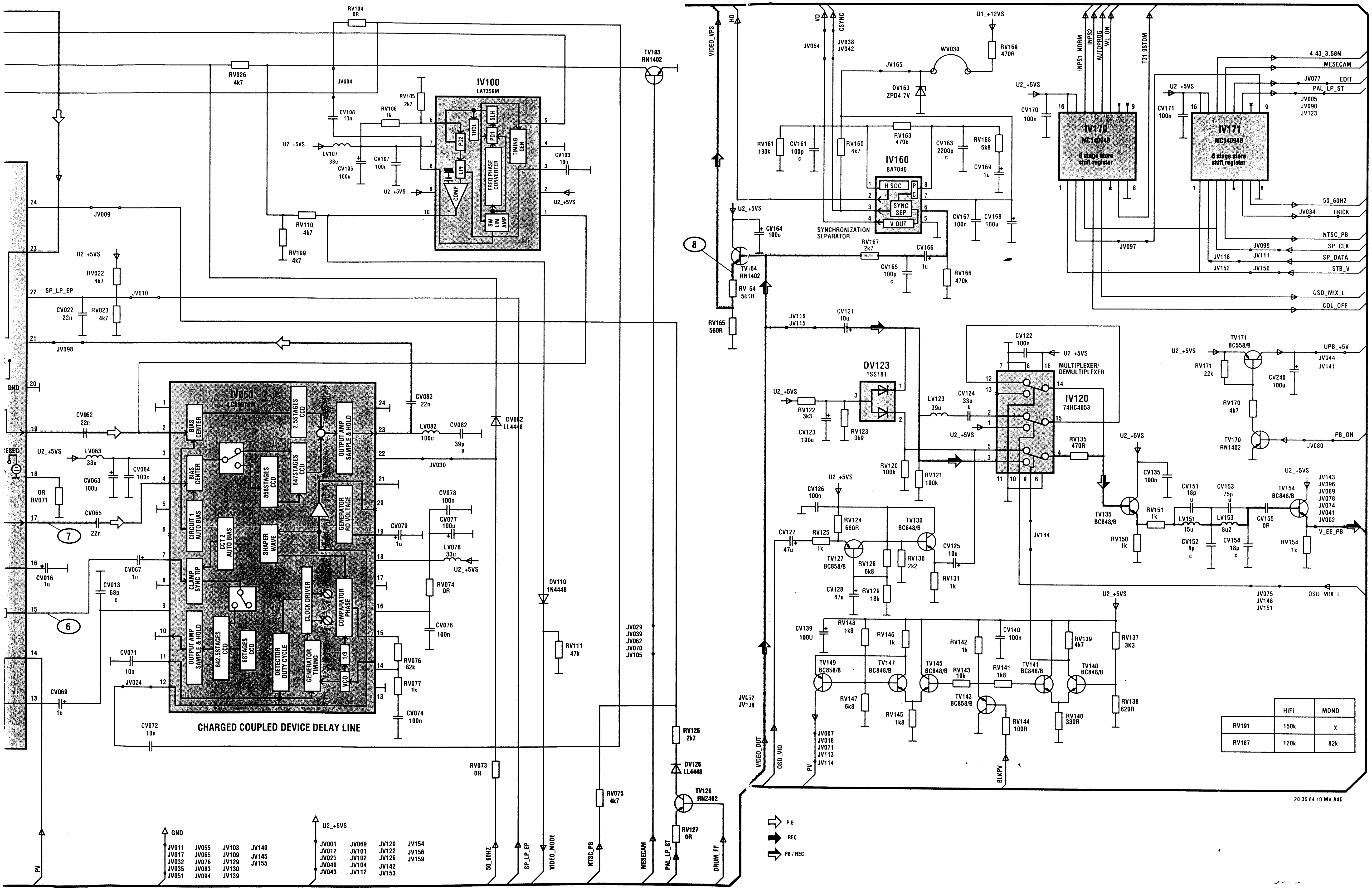
⇨ PB
➡ REC
⇨ PB / REC

VIDEO SIGNAL PROCESSING - TRAITEMENT LUMINANCE / CHROMINANCE - VIDEO SIGNALVERARBEITUNG - ELABORAZIONE VIDEO - TRATAMIENTO VIDEO

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA (**VPH 6600N - VPH 6680 - VPH 6780 - M 9680 HIFI**)



BV001
1 GND
2 REC_YC
3
4 HD_CSYNC
5 DFFHASEL
6 HD_VID_ENV
7 COMPARATOR
8 PB_YC
9
10
TO CYLINDER
COMPARATOR
VIDEO_ENV
DRUM_FF
HA_SEL
TRICK
REC_ON
CSYNC1
V_EE_REC
COL_OFF
PB_YC
REC_ON
RV191 TBL
CV184 68p c
PB_YC1
JV013
CHR SECAM
CHR PAL
CHR PAL/SECAM
BC100 (SECAM MODULE)
RV053 100R
JV053
PB_YC
UPB_+5V
JV016
CHR_REC
P/ME_CHR_R
GND
V_EE_REC
U2_+5VS
COL_OFF
CSYNC
JV085
KIL_DET
DLY_Y
MAIN_D_EMP
SP_LP_EP
WV020
RV182 4R7
U2_+5VS
RV183 4k7
RV185 22k
RV184 12k
DRUM_FF
JV066
RV186 47k
DV186 LL4448
RV187 TBL
RV190 100k
RV194 560k
U2_+5VS
CV189 22n
TV187 BC848/B
RV192 10k
TV186 RN1402
RV020 1k
JV022
DV182 LL4448
TV188 BC848/C
RV188 1k
RV181 2k2
CV182 22n
LV200 33u
U2_+5VS
CV200 100n
CV201 100u
RV201 1k5
TV201 BC848/B
TV200 BC848/B
RV200 1k
RV204 18k
RV205 10k
RV206 3k3
JV014
CH REC
JV015
JV131
RV202 1k
DV202 LL4448
UPB_+5V
CV212 10n
RV213 5k6
LV214 180u
CV214 130p u
CV215 62p u
RV215 270R
Y REC
JV021
CV213 10p c
RV214 1k8
LV215 82u
JV047 JV068
JV095
JV028 JV100
JV037
DV039 LL4448
CV038 22n
CV039 47n
JV058 JV056
DV109 1N4448
RV041 10k
CV041 47n
VIDEO_MODE
CV036 22n
CV037 1u
RV036 1k
CV035 1u
LV033 33u
U2_+5VS
CV032 470n
CV042 10n
RV044 2k
CV045 100n
CV044 10u
CV049 1u
UPB_+5V
CV219 100n
RV221 18k
RV223 1k2
TV227 BC848/B
CV222 10n
TV223 BC848/B
LV226 180u
CH PB PAL
CV224 10n
CV226 51p u
RV227 3k9
RV222 10k
RV224 630R
RV225 1k5
TV225 RN1402
SP_LP_EP
JV060 JV061 JV117
RV051 470R
RV054 0R
TV055 BC848/B
U2_+5VS
LV052 68u
CV053 24p u
CV055 33R
JV087
JV048 JV086
RV047 1k
U2_+5VS
CV046 100n
RV046 5k1
TV047 BC858/B
RV055 1k
CV047 56p c
RV050 0R
CV048 200p c
RV045 1k3
UPB_+5V
CV241 100n
RV241 3k9
RV244 560R
CV247 120p u
LV247 82u
RV247 1k
RV249 470R
CV254 100n
RV255 560R
CV252 56p u
LV251 15u
Y PB
RV242 100R
TV243 BC858/B
CV246 15p u
LV246 22u
TV248 BC848/B
LV248 68u
CV249 22p u
RV252 1k
RV256 560R
TV251 BC848/B
CV242 120p c
RV243 5k6
LV243 120u
CV243 560p u
RV245 1k
LV245 27u
CV248 15p c
RV248 3k3
RV251 1k3
TV250 BC848/B
RV250 430R
RV253 470R
RV254 470R
CV251 22n
RV257 1k
CV244 820p u
IV001
LA7447M
VCC
321FH VCO
SLD
REC AFC DET
PB APC DET
REC APC DET
BGP2
ID-DET
KIL-DET
BGP1
90 P.S
X2
DELAY
2FSC
COM
PAL
4PHASE SHIFTER
SUB CONV
BALANCER
B.G
ACC DET
ACC AMP
KILLER
C-LPF
C.ROT
SUB BPF
MAIN CONV
EMPH
6DB
BGP.GEN
HALF H. KILLER
FSC BPF
NT*REC
FM AGC
DOUBLE LIMIT
FM DEMOD
FM MOD
CARRIER SHIFT
DOC DET
NL DEEMPH
REG 4.2V
SUB LPF
WHIP NOICAN
PICTURE CONTROL
Y/C MIX
MAIN DEEMPH
SYNC SEP
FMAGC DET
DELAY
CLAMP
W/D CLIP
DETAIL EMPH
MAIN EMPH
NL EMPH
AGC DET
VIDEO AGC
LPF
QV/QH INS CHARA INS W/D CLIP
1/2
Y-LPF
LIM
CORR
K1
K2
DOC
ATT
VCA
VIDEO AMP
SW1
SW2
VXO
XO
3RDLOCK PROTECT
SECAM CTL
PB AMP B.DEEM
NAP
FSC BPF
CHROMA N.C.
REC NTSC PB ALL
MESEC
6DB AMP
DL EQ
NAP/GBIN
NAPN PAL/GBIN
TD CTL
INVERT
GND
PIC CONT
YNR CTL
NC CTL
PAL_LP_ST
IV001P33
TV028 BC848/B
CV029 1u
DV029 LL4448
RV028 1k8
RV027 1k
JV006
CV030 47n
RV029 8k2
QV028 4.433619MHz
U2_+5VS
RV022 4k7
JV009
SP_LP_EP
JV010
CV022 22n
RV023 4k7
JV098
CV062 22n
U2_+5VS
LV063 33u
CV063 100u
CV064 100n
0R RV071
CV065 22n
CV016 1u
CV067 1u
CV013 68p c
CV071 10n
JV024
CV069 1u
CV072 10n
BIAS CENTER
BIAS CENTER
CIRCUIT 1 AUTO BIAS
CLAMP SYNC TIP
OUTPUT AMP SAMPLE & HOLD
842 5STAGES
CHAR
RV049 2k7
CV001 390p c
DV048 LL4448
RV001 680R
CV011 8p c
RV002 4p7 c
TV002 RN1402
DV003 1N4448
CV002 1k
RV003 100R
CV004 22n
TV003 BC848/B
CV005 10u
RV006 3k9
RV005 3k6
RV004 10k
U2_+5VS
JV046
TV006 BC848/B
CV006 22n
RV007 2k7
RV008 3k3
JV025 JV057
U2_+5VS
JV027
CV008 100u
CV007 10u
JV020 JV036 JV049
CV009 100n
LV008 33u
U2_+5VS
JV026 JV045
CV010 10u
RV011 100R
TV011 BC858/B
RV010 1k
U2_+5VS
JV031
UPB_+5V
UPB_+5V
EDIT
SHRP/RC
PB_ON
REC_ON
V_EE_REC
CSYNC1
VIDEO_OUT
COL_ROT
PV
GND
JV011 JV017 JV032 JV035 JV051
JV055 JV065 JV076 JV083 JV094
①
②
③
④
⑤
⑥
⑦


IV100
LA7356M
IV060
LC89970M
CHARGED COUPLED DEVICE DELAY LINE
BIAS CENTER
CIRCUIT 1 AUTO BIAS
CCT 2 AUTO BIAS
CLAMP SYNC TIP
OUTPUT AMP SAMPLE & HOLD
842.5STAGES CCD
6STAGES CCD
858STAGES CCD
847STAGES CCD
2.5STAGES CCD
SHAPER WAVE
CLOCK DRIVER
DETECTOR DUTY CYCLE
GENERATOR TIMING
COMPARATOR PHASE
GENERATOR RD VOLTAGE
VCO
1/3
COMP
LPF
PD2
PD1
1HDL
SLH
TIMING GEN
FREQ PHASE CONVERTER
SW LIM AMP
IV160
BA7046
H SDC
SYNC SEP
V OUT
SYNCHRONIZATION SEPARATOR
IV170
MC14094B
8 stage store shift register
IV171
MC14094B
8 stage store shift register
IV120
74HC4053
MULTIPLEXER/ DEMULTIPLEXER
DV123
1SS181
TV103
RN1402
TV164
RN1402
TV126
RN2402
TV171
BC558/B
TV170
RN1402
TV135
BC848/B
TV154
BC848/B
TV127
BC858/B
TV130
BC848/B
TV149
BC858/B
TV147
BC848/B
TV145
BC848/B
TV143
BC858/B
TV141
BC848/B
TV140
BC848/B
DV082
LL4448
DV110
1N4448
DV126
LL4448
DV163
ZPD4.7V
VIDEO_VPS
HD
VD
CSYNC
U1_+12VS
U2_+5VS
INPS1_NORM
INPS2
AUTOPROG
WL_ON
T31_9STDM
4.43_3.58N
MESECAM
EDIT
PAL_LP_ST
50_60HZ
TRICK
NTSC_PB
SP_CLK
SP_DATA
STB_V
OSD_MIX_L
COL_OFF
UPB_+5V
PB_ON
V_EE_PB
VIDEO_OUT
OSD_VID
PV
BLKPV
50_60HZ
SP_LP_EP
VIDEO_MODE
NTSC_PB
MESECAM
PAL_LP_ST
DRUM_FF
GND
SP_LP_EP
⑥
⑦
⑧
PB
REC
PB / REC
20 36 84 10 MV A46

	HIFI	MONO
RV191	150k	X
RV187	120k	82k